ADVENT

COLOR TELEVISION RECEIVER

INSTRUCTION MANUAL

HT2751A
HT3251A

Before operating the unit, please read this manual thoroughly.

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Important Safety Instructions

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION-These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Before using the unit, be sure to read all operating instructions carefully. Please note that these are general precautions and may not pertain to your particular unit. For example, this unit may not have the capability to be connected to an outdoor antenna.

1. READ THESE INSTRUCTIONS
All the safety and operating instructions should be read before the product is operated.

2. KEEP THESE INSTRUCTIONS
The safety and operating instructions should be retained for future reference.

3. HEED ALL WARNINGS
All warnings on the product and in the operating instructions should be adhered to.

4. FOLLOW ALL INSTRUCTIONS
All operating and use instructions should be followed.

5. DO NOT USE THIS APPARATUS NEAR WATER
Do not use this product near water (a bathtub, washbowl, kitchen sink, laundry tub, wet basement, or swimming pool for example)

6. CLEAN ONLY WITH DRY CLOTH
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.

7. ATTACHMENTS
Only use attachments/accessories specified by the manufacturer.

PORTABLE CART WARNING
(symbol provided by RETAC)

S3126A

8. ACCESSORIES
Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury and serious damage to the unit.

8A. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

9. VENTILATION
Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

10. POWER SOURCES
This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

11. GROUNDING OR POLARIZATION
Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

12. POWER-CORD PROTECTION
Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

13. LIGHTNING

Unplug this apparatus during lightning storms or when unused for long periods of time.

14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching power lines or circuits as contact with them might be fatal.

15. OVERLOADING

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY (C-UL standards)

Apparatus shall no t be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna is connected to the product, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electric Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge product, size of grounding conductors, location of antenna discharge product, connection to grounding electrodes, and requirements for grounding electrodes.

18. SERVICING

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

19. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

20. SAFETY CHECK

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

22. DAMAGE REQUIRING SERVICE

Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

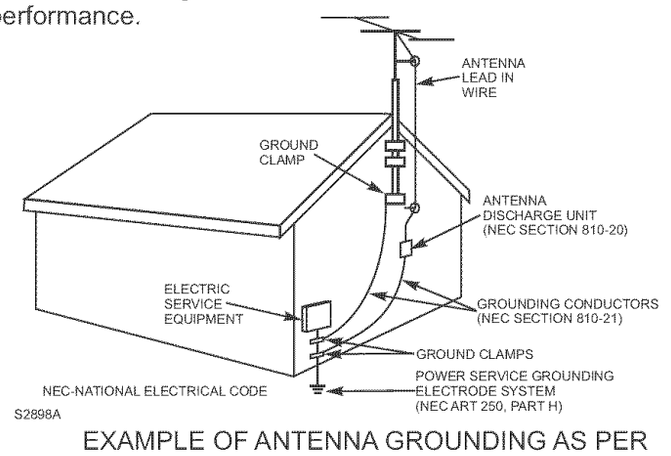
a. When the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally after installation by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or the cabinet has been damaged.
f. When the product exhibits a distinct change in performance.

23. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

24. NOTE TO Cable SYSTEM INSTALLER

This reminder is provided to call the Cable system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

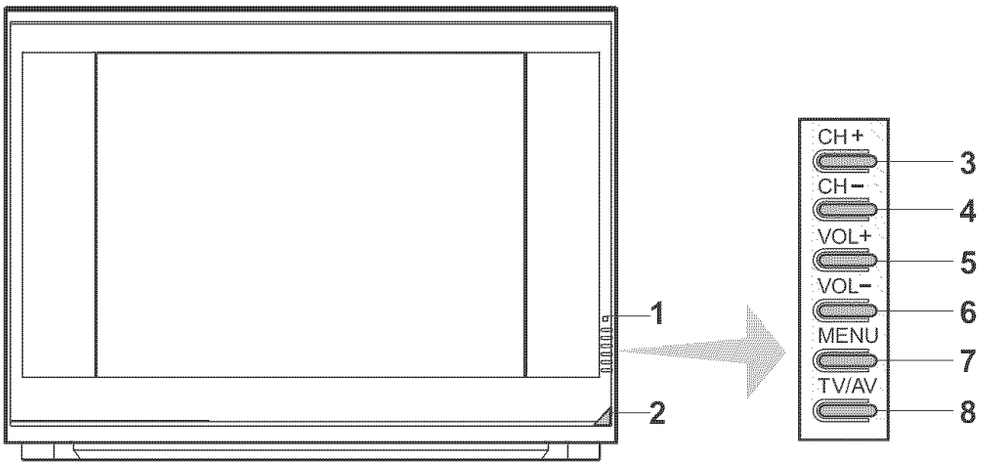

ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC-NATIONAL ELECTRICAL CODE
S2898A

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

WARNING: FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS (REFER TO SERVICE LITERATURE).

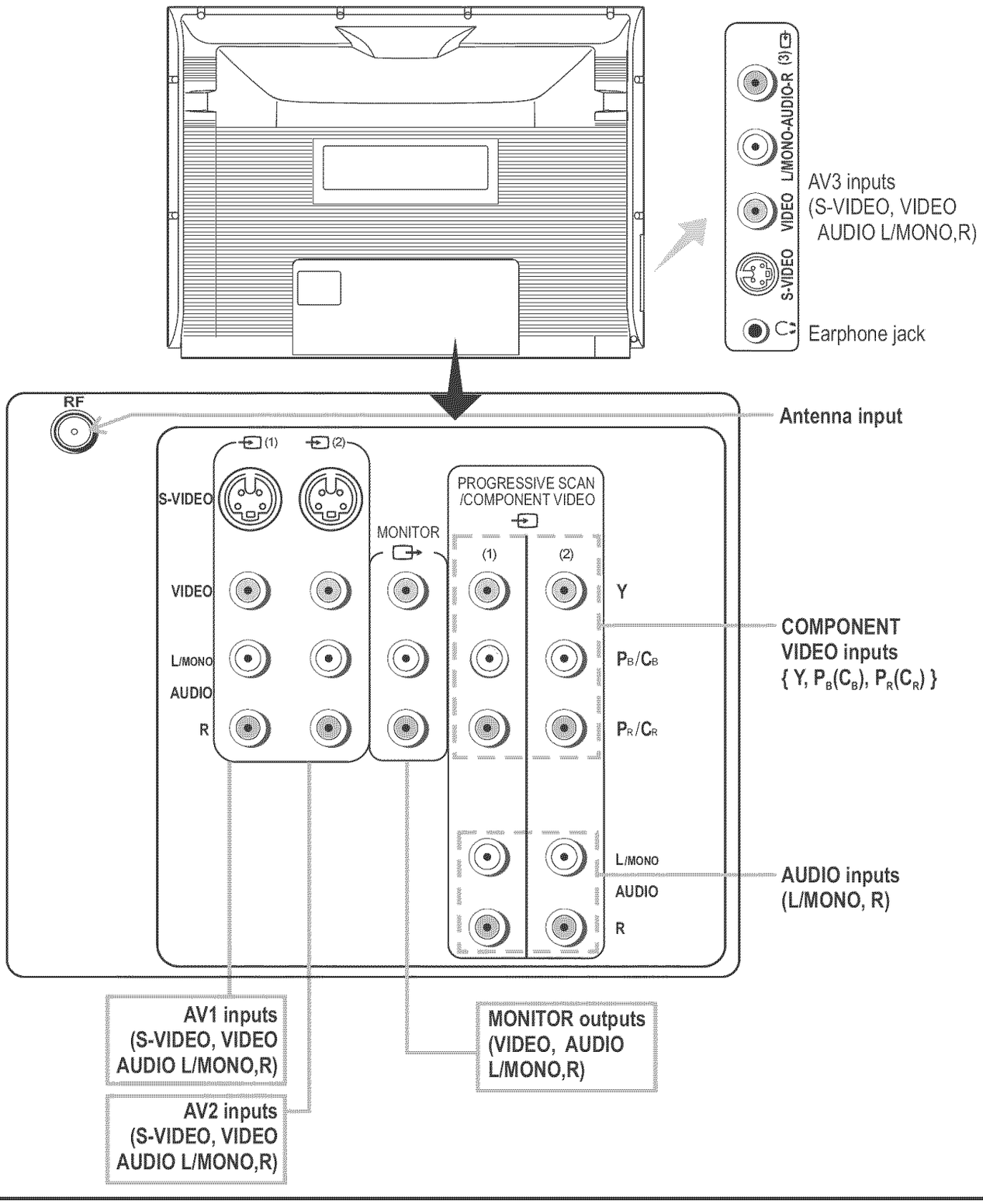
Getting Started

Front Panel (HT2751A)



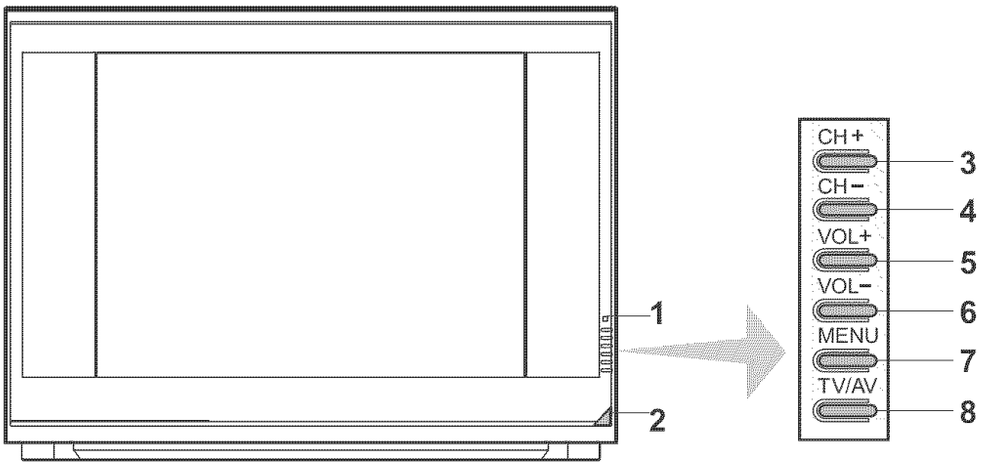
1. Remote sensor
2. Power button
3. CH + button: channel up or menu select.
4. CH − button: channel down or menu select.
5. VOL + button: volume up or menu adjust.
6. VOL − button: volume down or menu adjust.
7. MENU button: to enter the menu.
8. TV/AV button: video input select.

Back Panel (HT2751A)



Getting Started

Front Panel (HT3251A)



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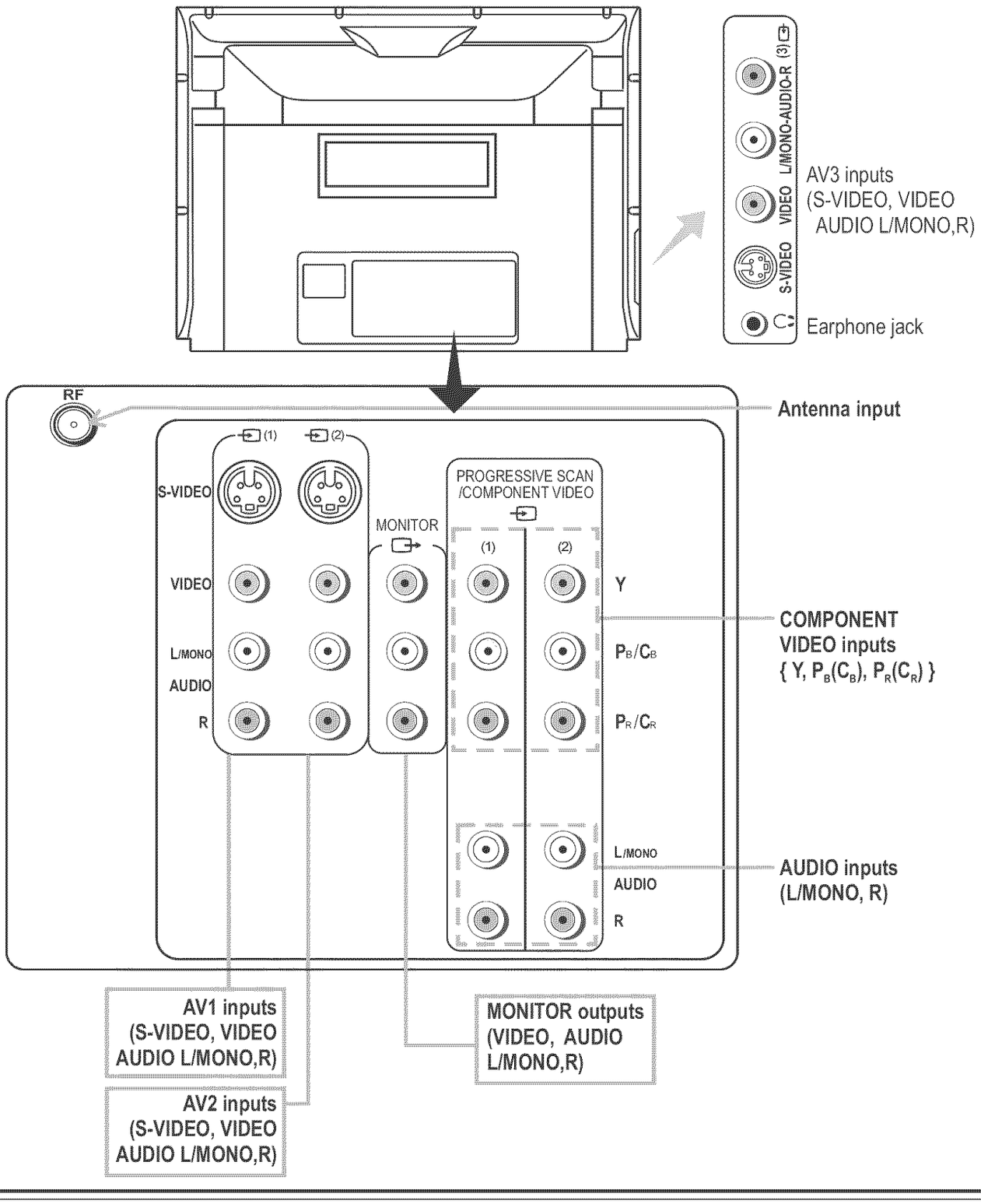
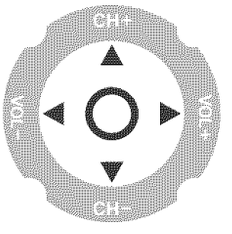
Back Panel (HT3251A)



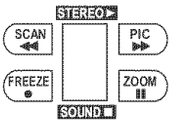
Getting Started(continued)

Remote Control



CH+/- : Channel select or menu item select

VOL+/- : Volume adjust or menu item adjust



STEREO button:
To select STEREO,SAP or MONO
► button: PLAY button of VCR, DVD or VCD player

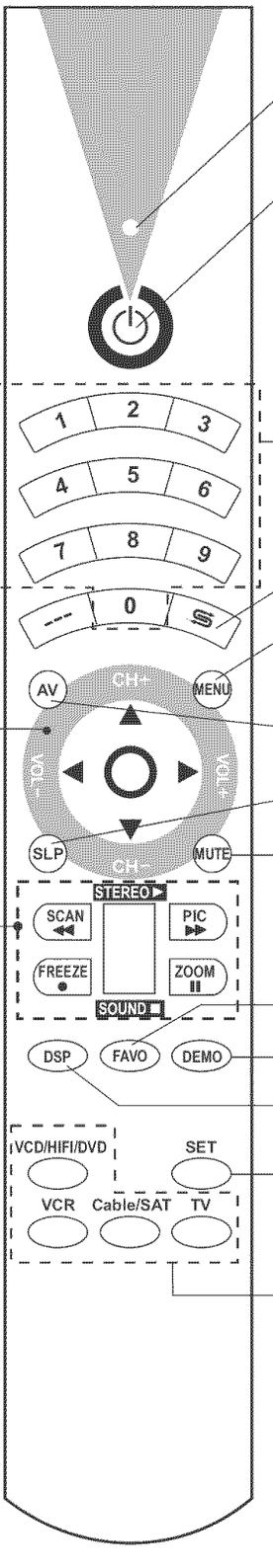
SOUND button:
To select sound mode.
■ button: STOP button of VCR, DVD or VCD player

SCAN button:
To scan channels;
◄◄ button: REWIND button of VCR, DVD or VCD player

PIC button:
To select picture mode.
►► button: FFWD button of VCR, DVD or VCD player

FREEZE button:
To freeze picture.
● button: RECORD button of VCR.

ZOOM button:
To select picture aspect.
❚❚ button: PAUSE button for VCR, DVD or VCD player.



The indicator lights up when any button is pressed

Turn the unit on or off

Direct channel selector

Quickly returns to previous selected channel

Access the main menu

To select to view program from external video equipment (VCR, DVD, Set-Top Boxes ,etc.)

Sleep timer

To mute the sound

To select favorite channels

To start menu demonstration

On-screen display

To program the remote or search through codes.

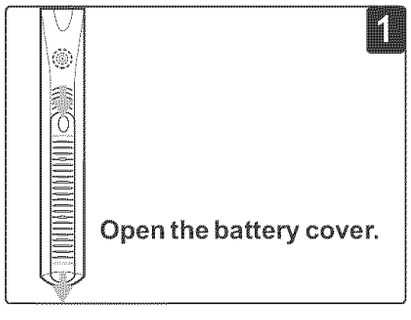
To select products to be controlled with RC

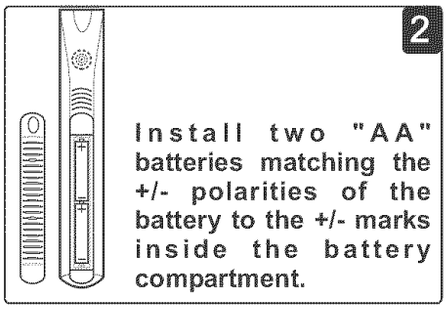
Important notes about the Remote Control Unit:

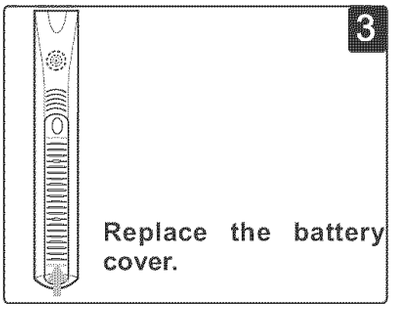
If your remote control does not work correctly, the code setting may be incorrect. Please try the following:

1. **Press and hold the SET button and the TV button at the same time until the indicator lights up.**
2. **Press 1, 5, 3. The indicator of the remote control will blink twice. If not, please repeat the above steps.**

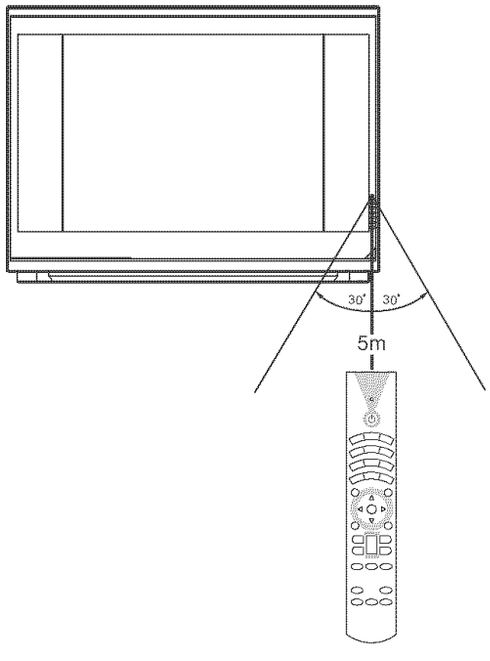
Installing batteries







Effective range of the Remote



Notes:

- When there is an obstacle between the TV and the transmitter, the transmitter may not operate.
- When direct sunlight, and incandescent lamp, fluorescent lamp or any other strong light shines on the REMOTE SENSOR, the remote control function may be unstable.
- Do not try to recharge batteries they are not intended to be recharged.
- Use only the size and type of batteries specified. Do not mix different types of batteries together or old batteries with fresh ones.
- When the remote control will not be used for a long period of time or when the batteries are worn out, remove the batteries.
- Do not throw the batteries into a fire. Dispose of or recycle used batteries properly.
- Do not drop, dampen or disassemble the remote control.

Installation

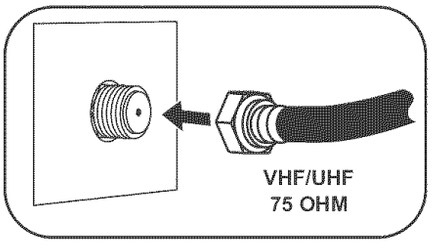
INSTALL the unit in a room where direct light will not fall upon the screen. Total darkness or a reflection on the picture screen may cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.

Antenna connections

OUTDOOR VHF/UHF ANTENNA CONNECTION (ANTENNA NOT INCLUDED)

Follow the instructions for the type of antenna system you intend to use. If using Cable or satellite, see the next page.

Combination VHF/UHF Antenna (Single 75 ohm cable or 300 ohm twin-lead wire)

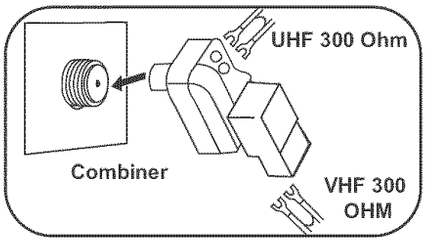


Connect the 75 ohm cable from combination VHF/UHF antenna to the antenna jack.

OR

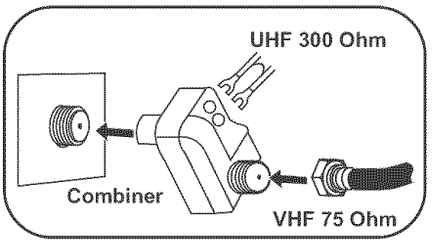
If your combination antenna has a 300 ohm twin-lead wire, use a 300-75 ohm matching transformer (NOT SUPPLIED).

Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm twin-leads)



Connect the UHF twin-lead wire to a combiner (NOT SUPPLIED). Connect the VHF twin-lead to a 300-75 ohm matching transformer (NOT SUPPLIED). Attach the transformer to the combiner. Attach the combiner to the antenna jack.

Separate VHF/UHF Antennas



Connect the 75 ohm cable from the VHF antenna and the UHF antenna twin-lead wire to a combiner (NOT SUPPLIED). Attach the combiner to the antenna jack.

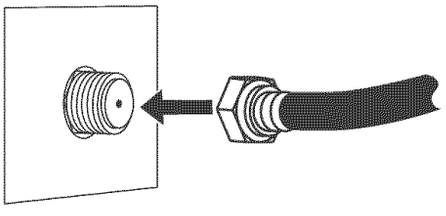
NOTE: If your VHF antenna has a twin-lead wire use a 300-75 ohm matching transformer, then connect the transformer to the combiner.

Cable (CATV)/satellite connections

This TV has an extended tuning range and can tune most cable channels without using a Cable TV converter box. Some Cable TV companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the cable company.

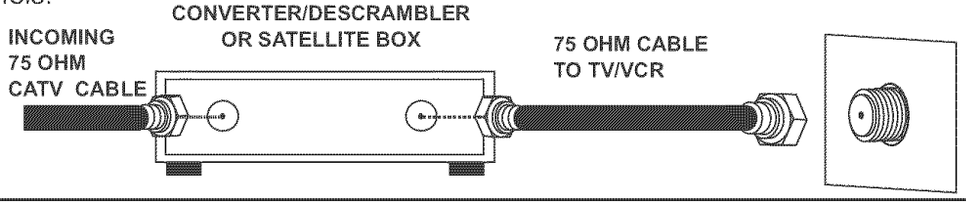
FOR SUBSCRIBERS TO BASIC CABLE TV SERVICE

For basic cable service not requiring a converter/descrambler box, connect the CATV 75 ohm coaxial cable to the VHF/UHF jack on the rear of the TV.



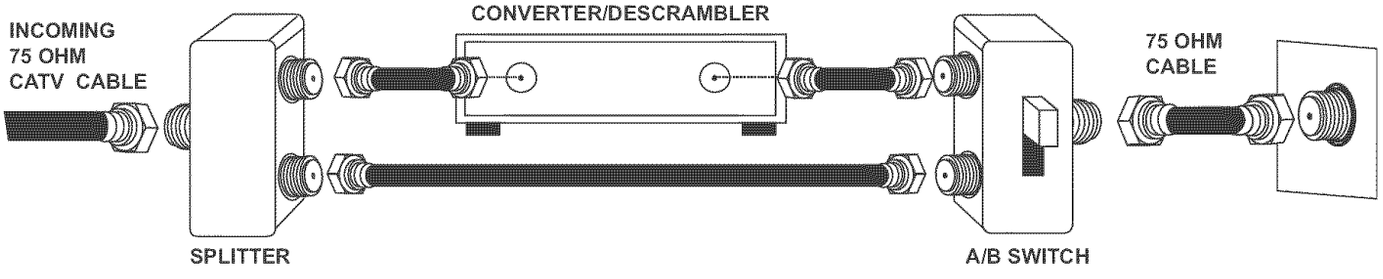
FOR SUBSCRIBERS TO SCRAMBLED CABLE TV SERVICE OR SATELLITE

If you subscribe to a satellite service or a cable TV service which requires the use of a converter/descrambler box, connect the incoming 75 ohm coaxial cable to the converter/descrambler box. Using another 75 ohm cable, connect the output of the converter/descrambler or satellite box to the antenna jack on the TV. Follow the connections shown below. Set the TV/VCR to the output channel of the converter/descrambler or satellite box (usually 3 or 4) and use the converter/descrambler or satellite box to select channels.



FOR SUBSCRIBERS TO UNSCRAMBLED BASIC CABLE TV SERVICE WITH SCRAMBLED PREMIUM CHANNELS

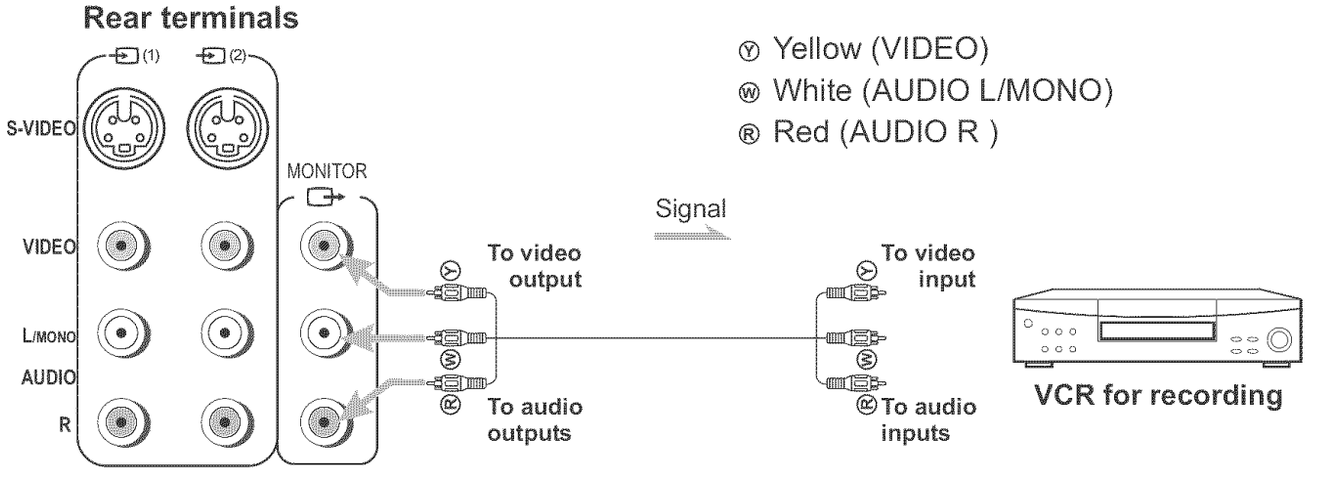
If you subscribe to a satellite service or a cable TV service in which basic channels are unscrambled and premium channels require the use of a converter/descrambler box, you may wish to use a signal splitter and an A/B switch box (available from the cable company or an electronic supply store). Follow the connections shown below. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the converter/descrambler box (usually channel 3 or 4) and use the converter/descrambler box to tune scrambled channels.



Installation(continued)

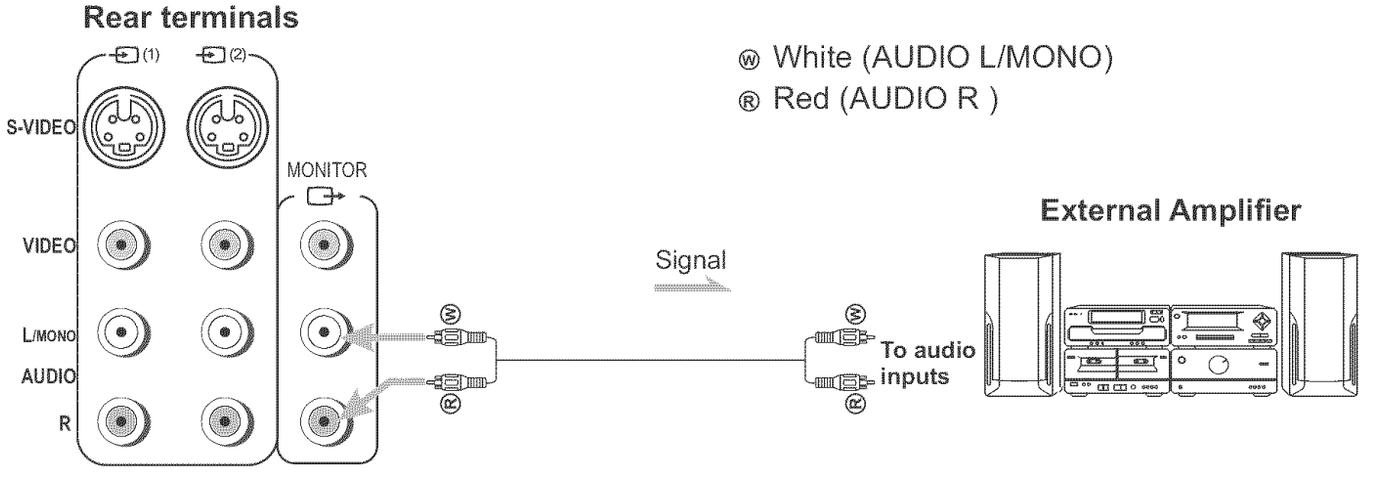
Please refer to the **owner's manual** of your specific equipment as well.

Using MONITOR outputs



You can connect the **MONITOR** output terminals to the VCR to record the program you like.

OR you can connect a stereo system to the **MONITOR** output terminals on the TV set rear to enjoy a high quality sound from the stereo system.



Recording TV program

1. Connect the MONITOR outputs to VCR as the figure above.
2. Select the desired TV program that you would like to record.
3. Press "RECORD" button of the VCR to record TV program.

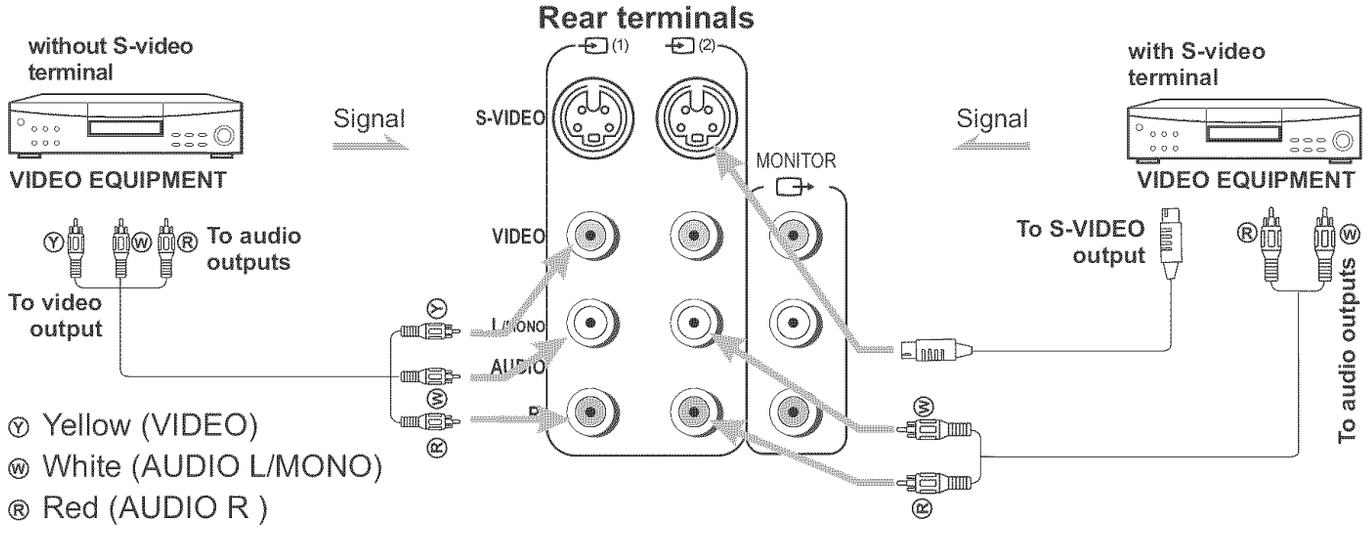
Connecting Audio Amplifier

1. Connect the audio outputs to audio amplifier as the figure above.
2. Set amplifier volume to minimum.
3. Select the desired TV program that you would like to amplify.
4. Adjust amplifier to a proper volume.

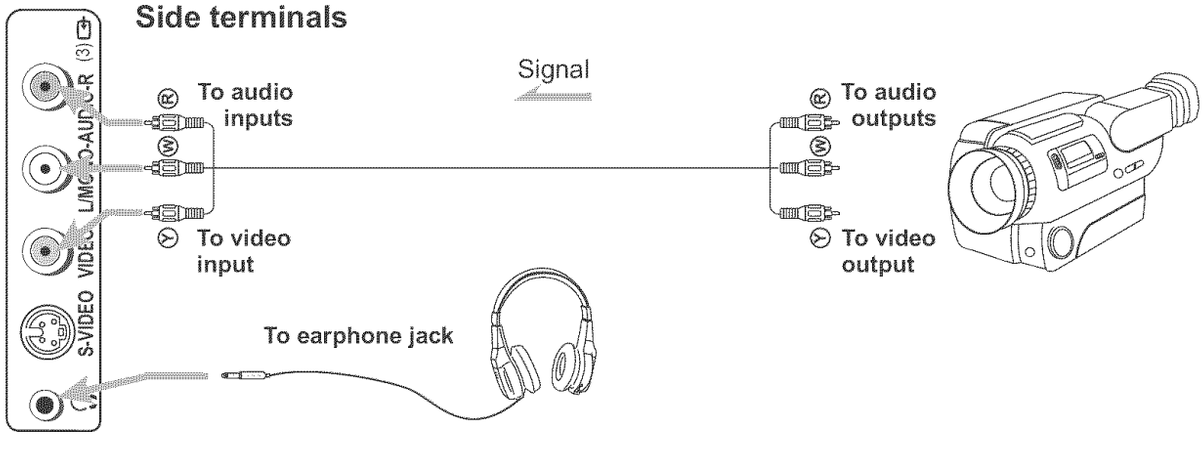
Installation (continued)

Please refer to the **owner's manual** of your specific equipment as well.

Using AV1 or AV2 inputs



Using AV3 inputs



To view video program from AV1, AV2 or AV3 inputs

1 Connect video equipments to AV inputs (**AV1**, **AV2** or **AV3**) as the figures above.

2 Press **AV** to display video input menu.

3 Select the corresponding video mode (**Video1** , **Video2** or **Video3**) by using **CH+** or **CH-**.

4 Press **VOL+** or **VOL-** to confirm.

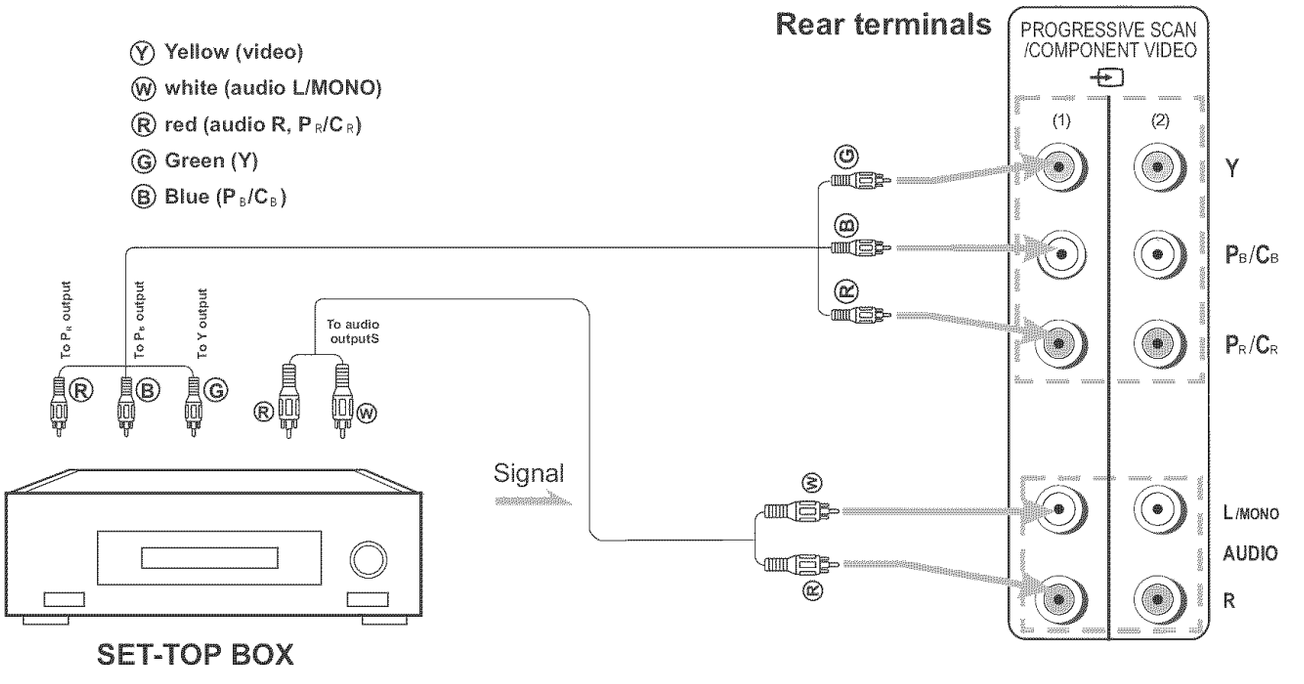
Notes:

In AV1, AV2, AV3 inputs, the S-VIDEO terminal takes precedence over the VIDEO terminal. To view program from the VIDEO terminal, be sure to disconnect the S-VIDEO terminal.

Installation(continued)

Please refer to the **owner's manual** of your specific equipment as well.

Using Progressive scan/component video 1 inputs



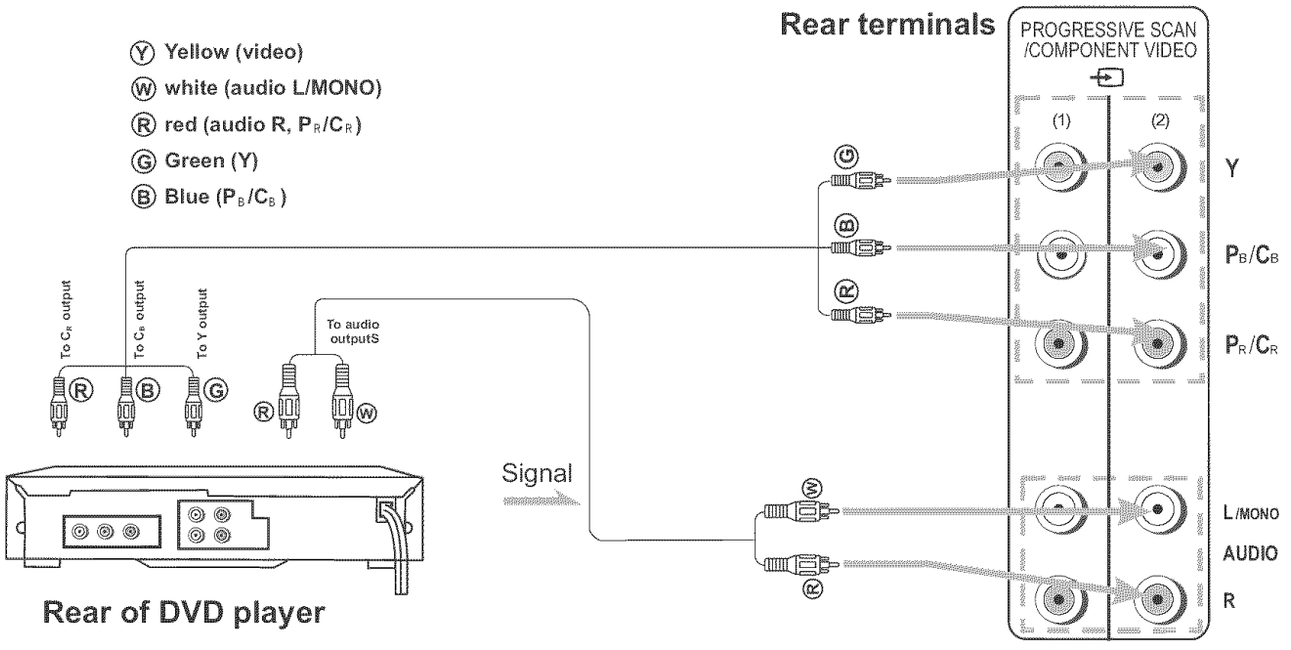
To view digital TV program

1. Connect Set-Top Box(or DVD) to PROGRESSIVE SCAN/COMPONENT VIDEO (1) inputs as the figure above.
2. Press **AV** to display video input menu.
3. Select **Component 1** by using **CH+** or **CH-**.
4. Press **VOL+** or **VOL-** to confirm.

Installation (continued)

Please refer to the **owner's manual** of your specific equipment as well.

Using Progressive scan/component video 2 inputs



If your DVD player is equipped with progressive scan HD video output (Y, P_B, P_R), you can optimize the picture quality by using component video cables.

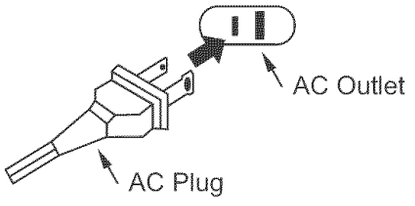
To view digital TV program

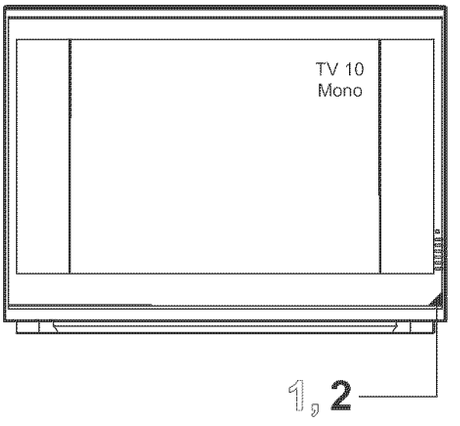
1. Connect DVD player (or Set-Top Box) to COMPONENT VIDEO (2) inputs as the figure above.
2. Press **AV** to display video input menu.
3. Select **Component 2** by using **CH+** or **CH-**.
4. Press **VOL+** or **VOL-** to confirm.

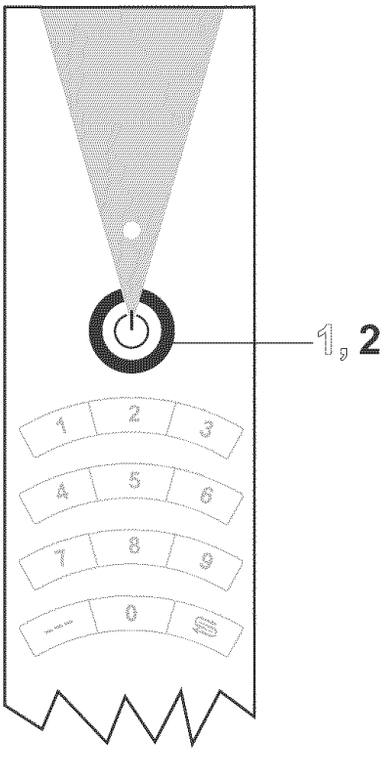
Notes:

The Y, P_B, P_R outputs on your DVD player are sometimes labeled Y, C_B, C_R or Y, B-Y, R-Y. If so, connect the cables to like colors.

Power on/off







Power On

1 Insert the AC plug (with the 2 blades) into an AC outlet (120V, 60Hz)

If no picture appears and the indicator lights up, then the TV set is in STANDBY mode. Please refer to step 2.

Notes:

The AC plug supplied with the unit is polarized to help minimize the possibility of electric shock. If the AC plug does not fit into a nonpolarized AC outlet, do not file or cut the wide blade. It is the user's responsibility to have an electrician replace the obsolete outlet.

To prevent electric shock, do not use the polarized plug with an extension cord receptacle or other outlet unless the blades can be fully inserted.

2 In STANDBY mode, press the power button on the TV set or on the remote control to turn the TV on.

Notes:

If there is no input signal, a blue background will appear.

Power off

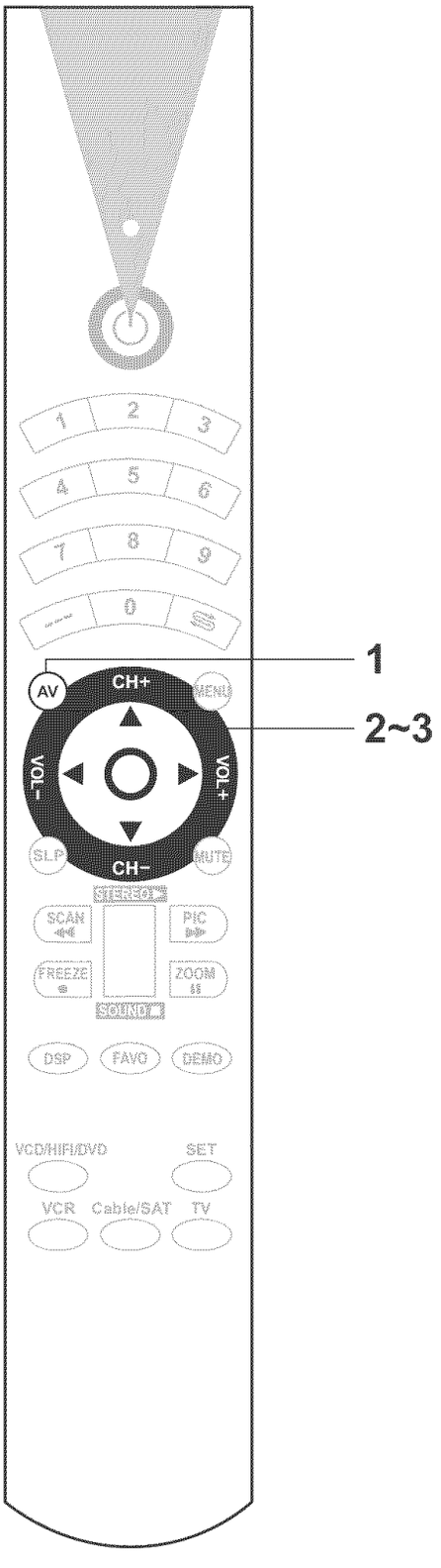
1 Press the Power button on the remote control or on the TV set to turn the TV off.

Notes:

The TV set can turn off automatically with the functions of:

- Sleep timer (need to be set in advanced).
- Off timer (need to be set in advanced).

Selecting the Video Input



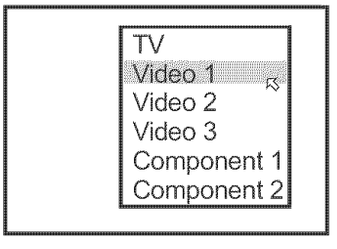
AV Input Selection

This TV set provides AV input/output terminals and DVD (HDTV) input terminals for convenient connection to VCRs, DVDs, Set-Top Boxes or other video equipments, and to optimize the high quality picture from these video sources.

1 **Press AV to display the video input menu.**

2 **Press CH+ or CH- to select a video input channel.**

3 **Press VOL+ or VOL- to confirm.**



Switching from AV to TV

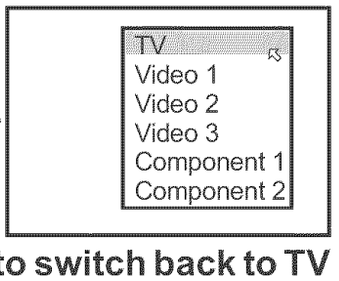
When the TV set is in AV mode, there are two ways to switch back to TV mode.

1 **Press AV button to display the video input menu.**

2 **Press CH+ or CH- to select TV item.**

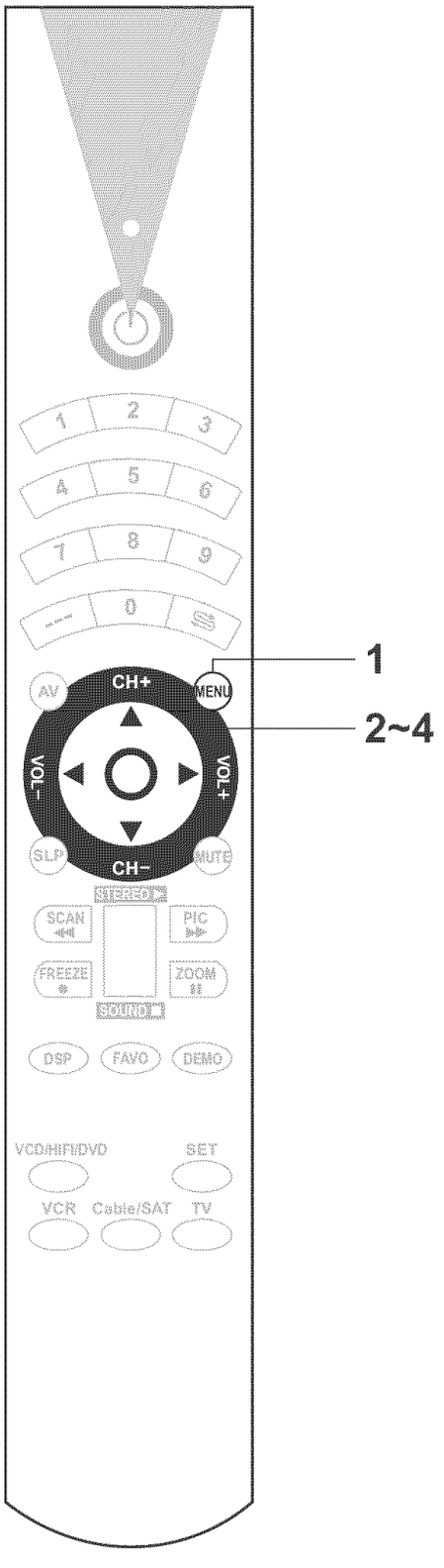
3 **Press VOL+ or VOL- to confirm.**

- or -



➢ **Directly press CH+ or CH- to switch back to TV mode.**

Tuning



Auto Search

1 **Press MENU to display the OSD menu.**

2 **Press VOL+ or VOL- to select** **icon.**

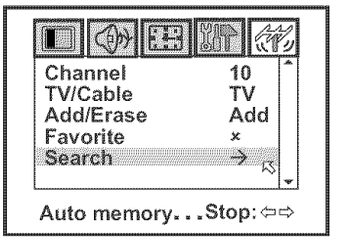
3 **Press CH- repeatedly to select Search item.**

4 **Press VOL+ or VOL- to start auto search.**

All active channels will be stored into memory automatically.

Notes:

Press the **VOL+** or **VOL-** if you want to stop **AUTO SEARCH.**



Setting TV/Cable option

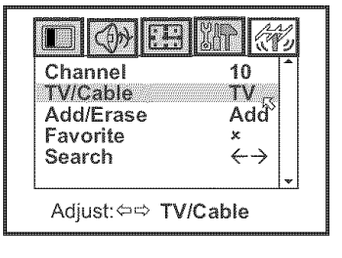
1 **Press MENU to display the OSD menu.**

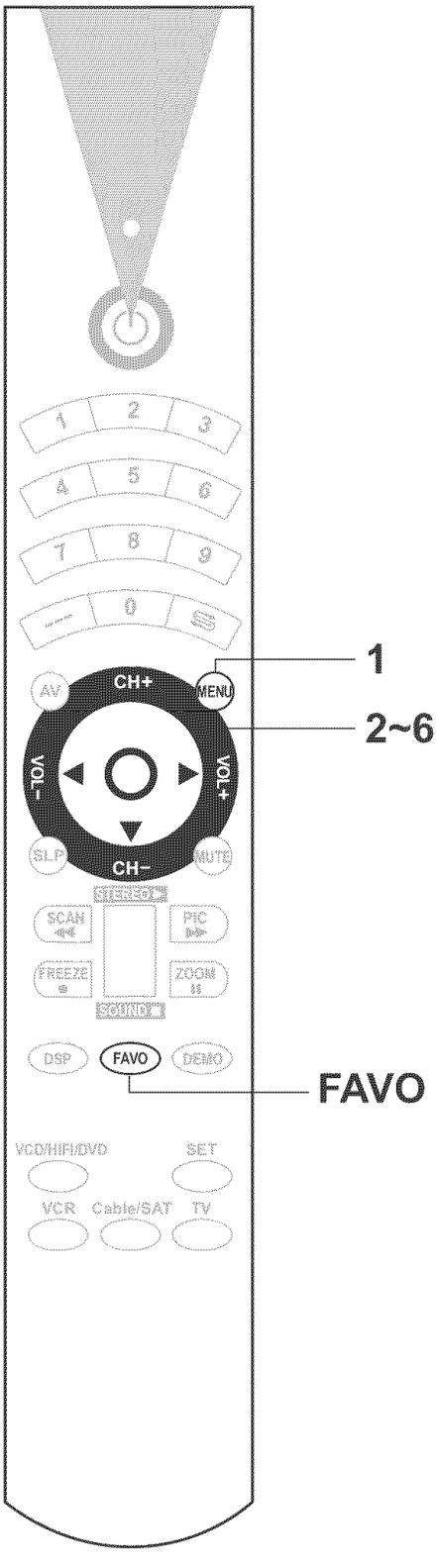
2 **Press VOL+ or VOL- to select** **icon.**

3 **Press CH- twice to select TV/Cable item.**

4 **Press VOL+ or VOL- to select TV or Cable.**

In TV mode, the set receives antenna signals. In Cable mode the set receives Cable TV programs. Please select:
TV: If using VHF/UHF antenna.
Cable: If using Cable TV.





Erasing an unwanted channel

1 Press MENU to display the OSD menu.

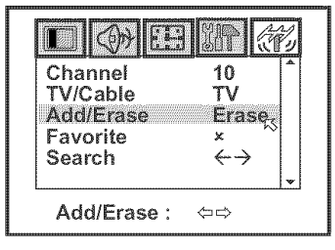
2 Press VOL+ or VOL- to select icon.

3 Press CH- to select Channel item.

4 Press VOL+ or VOL- to select an unwanted channel number.

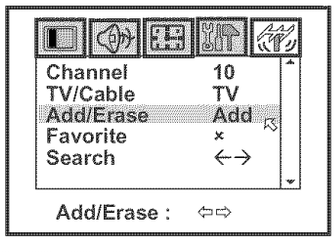
5 Press CH- twice to select Add/Erase item.

6 Press VOL+ or VOL- to select Erase.



The "erased" channel will be skipped when you browse channels by **CH+** or **CH-** button.

To view a skipped channel, use digit keys to select the "erased" channel. Then repeat the above steps and set the **Add/Erase** item to **Add**.



Setting favorite channel

1 Press MENU to display the OSD menu.

2 Press VOL+ or VOL- to select icon.

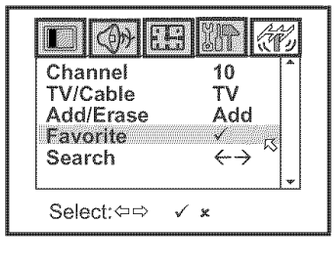
3 Press CH- to select Channel item.

4 Press VOL+ or VOL- to select a channel number.

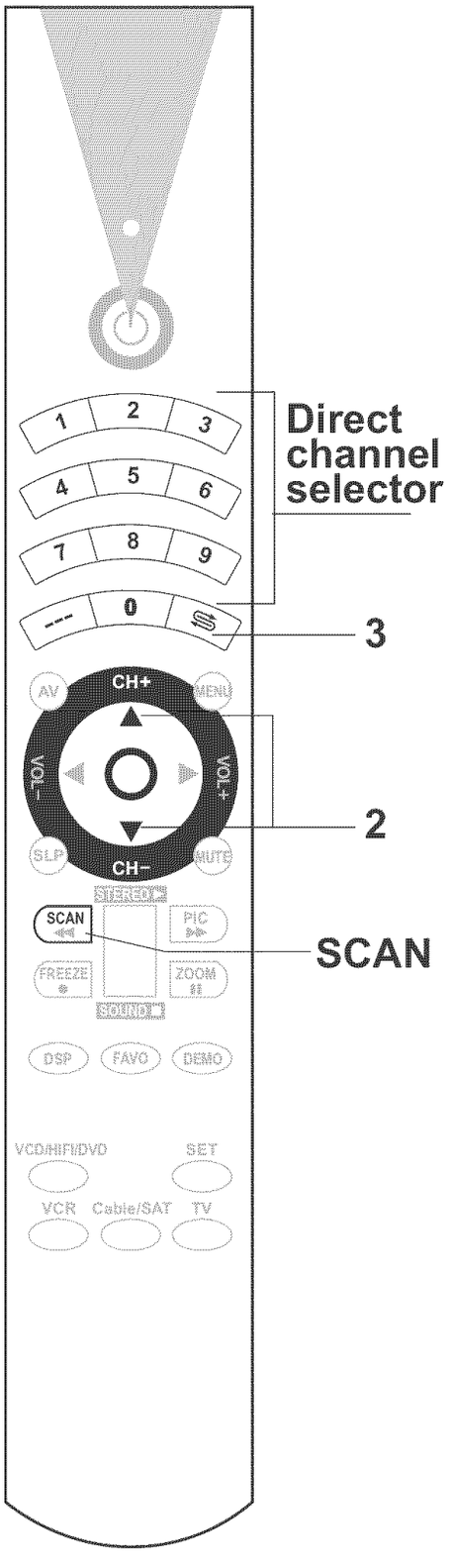
5 Press CH- repeatedly to select Favorite item.

6 Press VOL+ or VOL- to select ✓ or × .

You can repeat the above steps to set more favorite channels so that you can cycle your favorite channels by pressing the **FAVO** button.



Channel Selection



Before you select a channel, please select TV or Cable input signal. Please see the Tuning section to set the TV/Cable input.
When you select TV, only channels received on antenna can be selected;
When you select Cable, channels received on cable can be selected.

1 Use Direct Channel Selector (0-9 and ---)

To select one-digit channel:

- Press one of the 0-9 digit keys and wait for 2 seconds.

To select two-digit channel:

- Input the channel using the digit keys. Be sure to enter the channel within 2 seconds.

To select three-digit channel: (Available in "Cable" mode only)

- Press "---" to display "1--".
- Press two digit keys to input the remaining two digits of the channel. For example, to select channel 124, press "---", press 2, then press 4.

2 Use CH+ or CH- button

Press **CH+**, the channel number increases;
Press **CH-**, the channel number decreases.

3 Previous channel ⇆ button

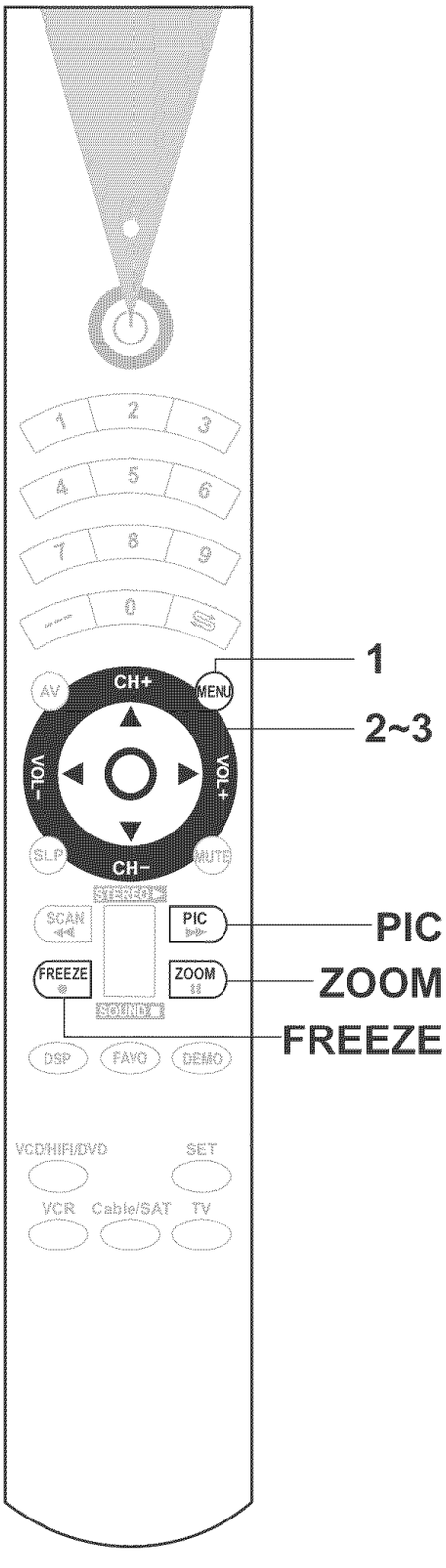
Press this button to switch between the current channel and the previous channel.

Scanning channels

Press the **SCAN** button, the TV set scans all channels one by one.
Every channel will be displayed for 2 seconds.
This function helps you to quickly browse all active programs. Press any button can stop **Channel Scanning**.

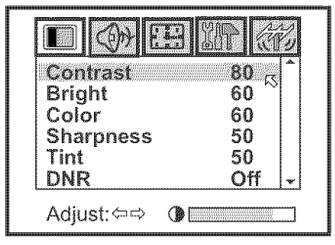
Channel Scanning

Adjusting Picture



Adjusting picture

1 Press MENU to display the OSD menu.
2 Press CH- to select item.
3 Press VOL+ or VOL- to adjust.



Item	VOL-	VOL+
Contrast	Minus	Plus
Brightness	darker	lighter
Color	paler	deeper
Sharpness	softer	sharper
Tint	purplish	greenish
DNR	Switch between Off, Soft, Mild and Hard	
SVM	Switch between ✓ and ×	

DNR——— Reduces noise in the channel, commonly called snow.

SVM——— Increase picture sharpness and provides crisp white to black transitions.

Selecting picture mode

There are three preset picture modes (**Movie, Standard** and **Sports**) and one user-set picture mode (**Custom**).
Each preset mode has its own picture settings (Color, Brightness, Contrast, Sharpness and Tint).
Using **PIC** button can select picture mode.

Movie: Select for a finely detailed picture.
Sports: Select for a bright picture.
Standard: Select for a standard picture.
Adjusted settings are stored in **Custom** mode.

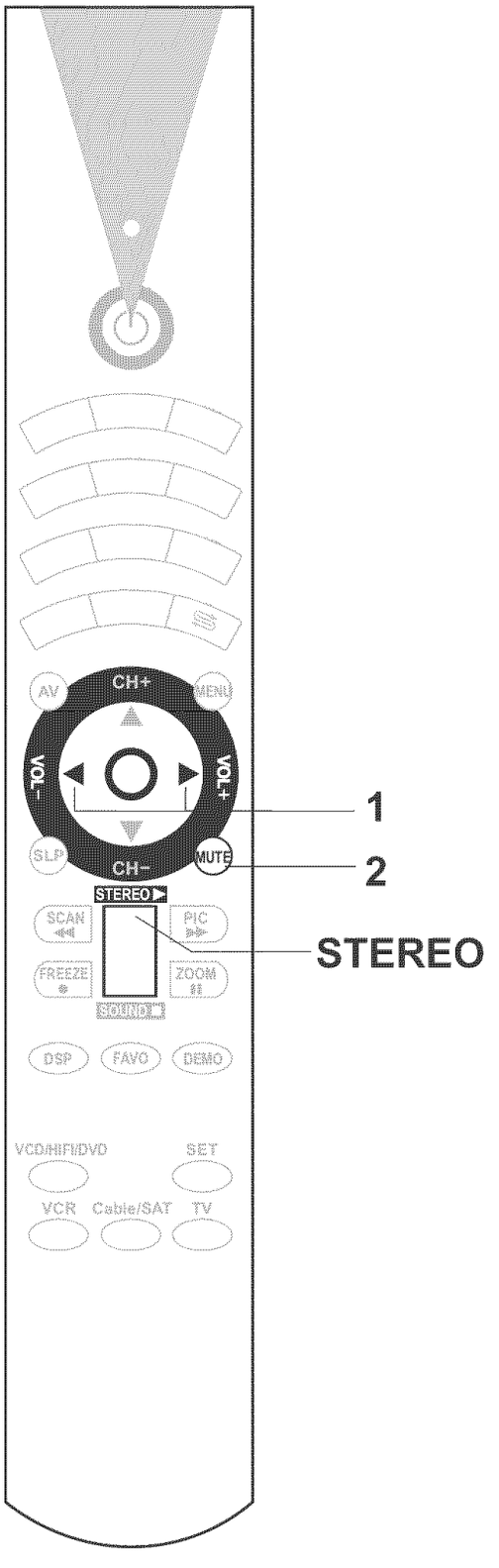
Selecting picture aspect

Press **ZOOM** to select picture size (ratio) between 16:9 and 4:3 according to your preference.

Freezing picture

This feature is used to freeze picture, when the **FREEZE** button is pressed.
Press the **FREEZE** button again to restore.

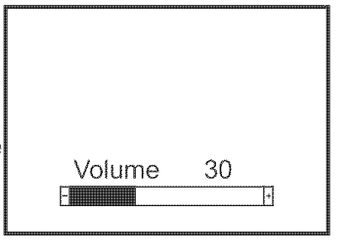
Sound



Adjusting volume

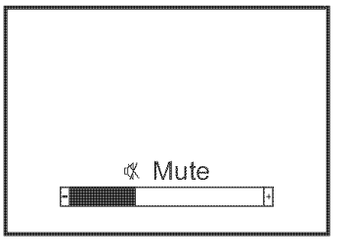
1 VOL+ or VOL- button.

Press **VOL+** to increase the volume.
Press **VOL-** to decrease the volume.
The minimum volume is 0 and the maximum volume is 100.



2 MUTE button.

To mute the sound, press **MUTE** on the remote.
To restore the sound, press **MUTE** again, or press the **VOL+** or **VOL-** button.



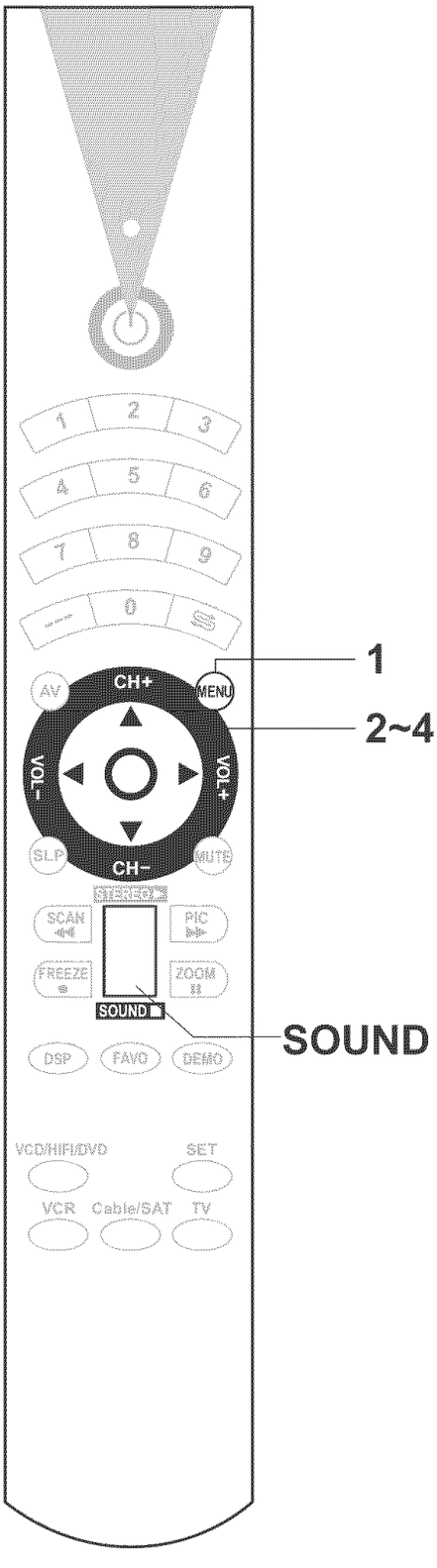
Selecting audio mode

If the program you are watching is "STEREO" or "SAP", you can select audio mode by using the **STEREO** button on the remote controller. The audio mode changes as follows.

MONO ⟷ STEREO (If the program is **STEREO**)

MONO ⟷ SAP (If the program is **SAP**)

MONO → STEREO → SAP (If the program is **STEREO & SAP**)



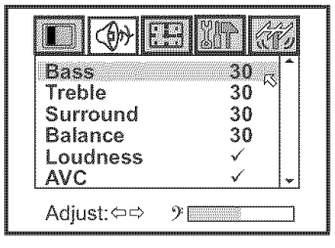
Adjusting sound

1 Press MENU to display the OSD menu.

2 Press VOL+ or VOL- to select icon.

3 Press CH- to select item.

4 Press VOL+ or VOL- to adjust.



Item	VOL-	VOL+
Bass	Minus	Plus
Treble	Minus	Plus
Surround	Minus	Plus
Balance	decreases the right channel	decreases the left channel
Loudness	Switch between ✓ and ×	
AVC	Switch between ✓ and ×	

Surround — Produces a dynamic three dimensional sound for stereo audio signals.

Loudness — To promote volume.

AVC — Auto Volume Control, to control volume when changing channel.

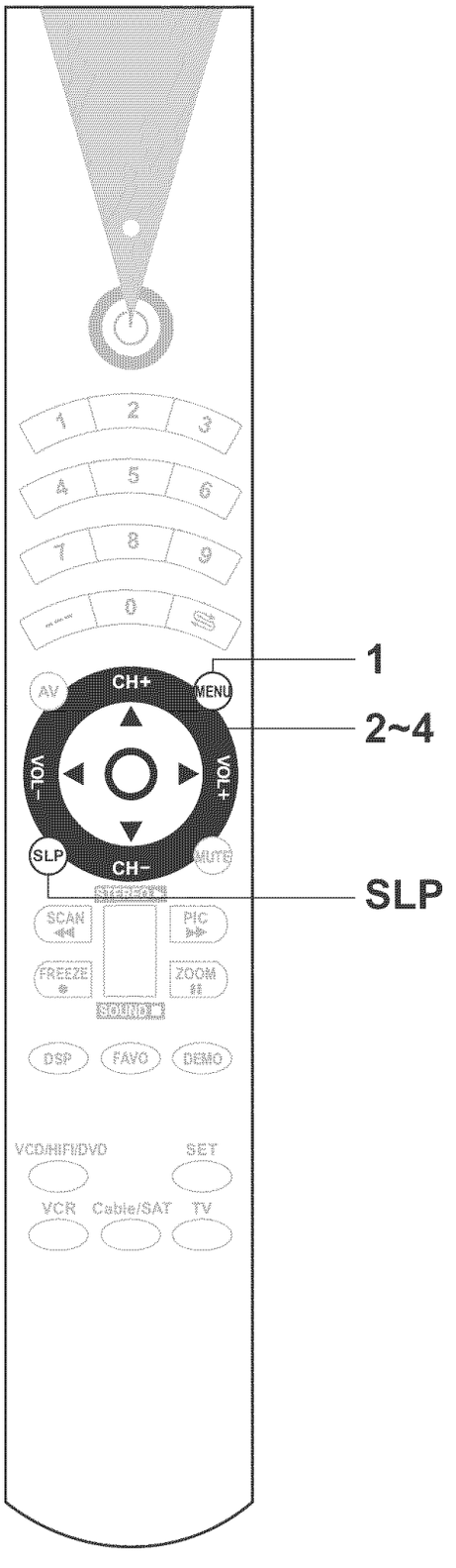
Selecting sound mode

There are three preset sound modes (**News**, **Music** and **Movie**) and one user-set sound mode (**Custom**).
Each preset mode has it's own sound settings (Bass, Treble, Surround and Balance).
Use the **Sound** button to select the sound mode.

News: Select for a speech or conversation program.
Music: Select for a music program.
Movie: Select for a movie program.

The adjusted settings are stored in **Custom** mode.

Timer



Setting Timer off

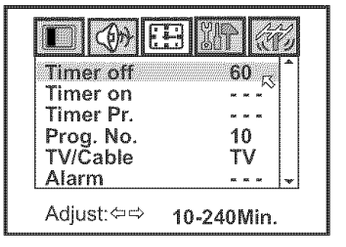
1 **Press MENU to display the OSD menu.**

2 **Press VOL+ or VOL- to select** **icon.**

3 **Press CH- to select Timer off item.**

4 **Press VOL+ or VOL- to set an OFF time.**

The OFF time cycles between 10,20,30,.....,230,240 or - - -.



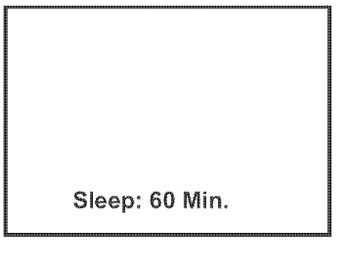
For example, if you would like the TV to turn off automatically in 60 minutes, press the **VOL+** or **VOL-** until **60** appears. In 60 minutes the set will turn off automatically. To turn off the **Timer off** function, press **VOL+** or **VOL-** until "**- - -**" appears.

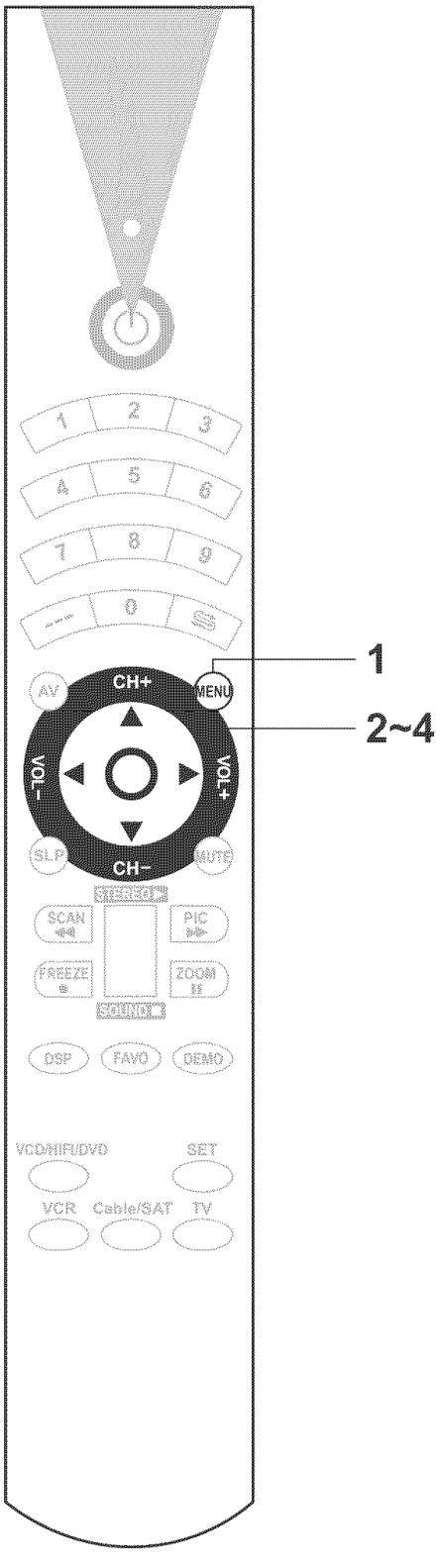
Setting Sleep Timer

You can quickly set the sleep timer by using the **SLP** button. With every press of this button the sleep time changes as follows:

OFF → 10 Min. → 20 Min. ------ → 110 Min. → 120 Min.

For example, you would like the TV to auto turn off in 60 minutes, you can press **SLP** repeatedly until the screen displays the desired amount of time. If you want to cancel the sleep timer, you can press **SLP** repeatedly until "**Off**" displays on the screen.





Setting Timer on

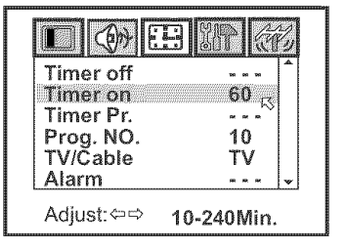
1 **Press MENU to display the OSD menu.**

2 **Press VOL+ or VOL- to select icon.**

3 **Press CH- repeatedly to select Timer on item.**

4 **Press VOL+ or VOL- to set an ON time.**

The ON time cycles between 10,20,30,.....,230,240 or - - -.



For example, if you would like the TV to turn on automatically in 60 minutes, press the **VOL+** or **VOL-** until **60** appears. Turn the set off. In 60 minutes the set will turn on to the pre programmed channel. To turn off the **Timer on** function, press **VOL+** or **VOL-** until "- - -" appears.

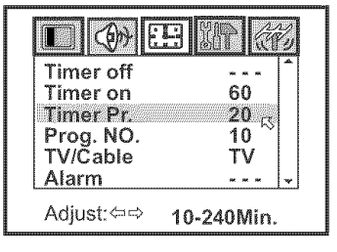
Setting Timer Pr. item

1 **Press MENU to display the OSD menu.**

2 **Press VOL+ or VOL- to select icon.**

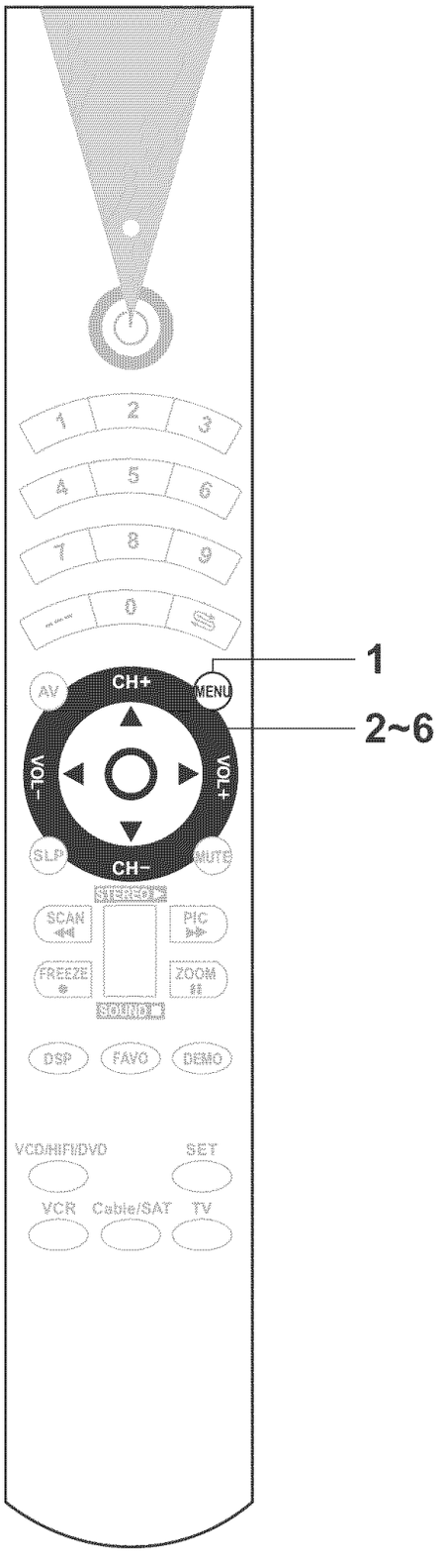
3 **Press CH- repeatedly to select Timer Pr. item.**

4 **Press VOL+ or VOL- to set a time.**



The **Timer Pr.** cycles between 10,20,30,.....,230,240 or - - -.
The set auto switches to the channel set in **Prog. No.** item when the time selected in the **Timer Pr.** item has elapsed.
To turn off the **Timer Pr.** function, press **VOL+** or **VOL-** until "- - -" appears.

Timer(continued)



Setting Prog. No. item

1 Press MENU to display the OSD menu.

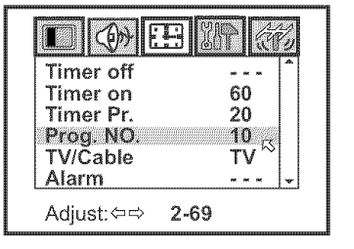
2 Press VOL+ or VOL- to select icon.

3 Press CH- repeatedly to select Prog. No. item.

4 Press VOL+ or VOL- to select a channel number.

5 Press CH- to select TV/Cable item.

6 Press VOL+ or VOL- to select TV or Cable.



Setting the **Prog. No.** item is necessary if you would like to use the function of **Timer on** or **Timer Pr.**
For example, **TV** channel **10** is set. When the function of **Timer on** or **Timer Pr.** is executed, the set auto switches to **TV** channel **10**.

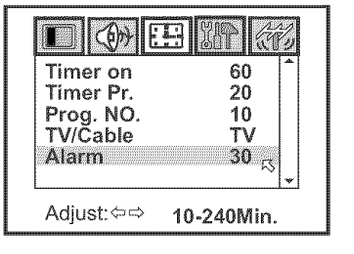
Setting Alarm

1 Press MENU to display the OSD menu.

2 Press VOL+ or VOL- to select icon.

3 Press CH- repeatedly to select Alarm item.

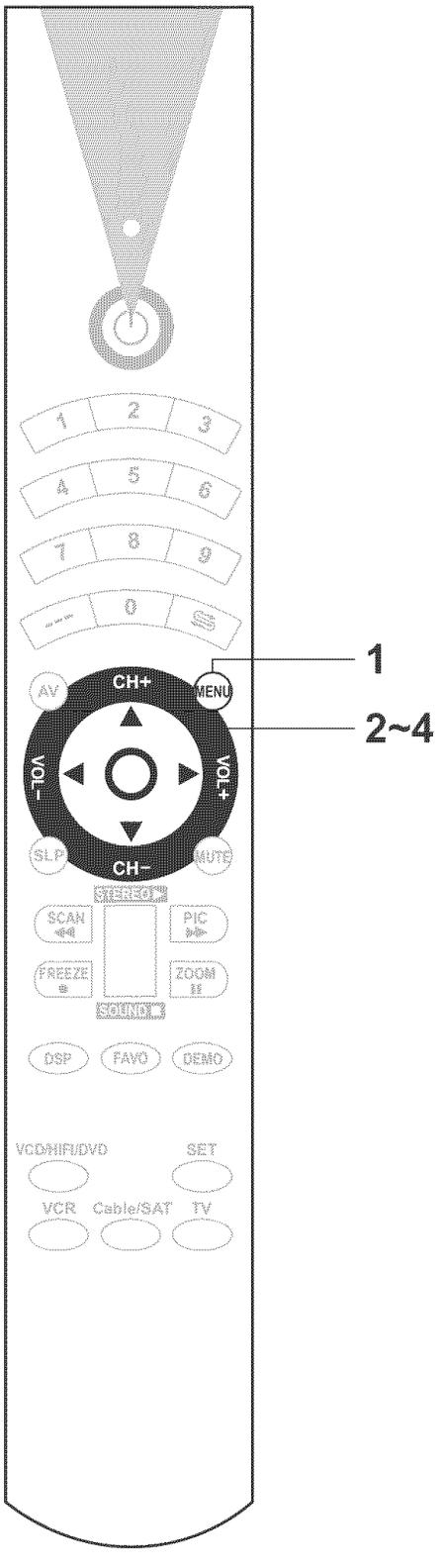
4 Press VOL+ or VOL- to set an alarm time.



The alarm time cycles between 10,20,30,.....,230,240 or - - -.
The set auto alarms when the time selected in the **Alarm** item has elapsed.
To turn off the **Alarm** function, press **VOL+** or **VOL-** repeatedly to select "- - -"

Notes:

Be sure to note that the **Alarm** function only effects when the set is in working mode.



Selecting a Language

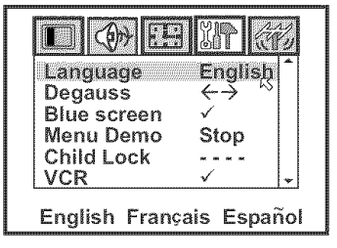
1 **Press MENU to display the OSD menu.**

2 **Press VOL+ or VOL- to select icon.**

3 **Press CH- to select Language item.**

4 **Press VOL+ or VOL- to select an OSD language.**

There are three OSD languages in this TV set: English, French and Spanish.



Degaussing the set

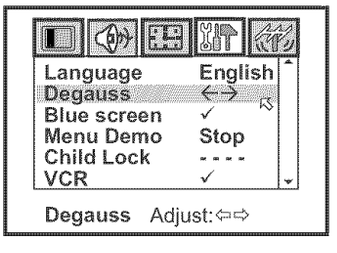
When the TV set is magnetized, the picture on the screen may be uneven in color. This function helps you to eliminate magnetization.

1 **Press MENU to display the OSD menu.**

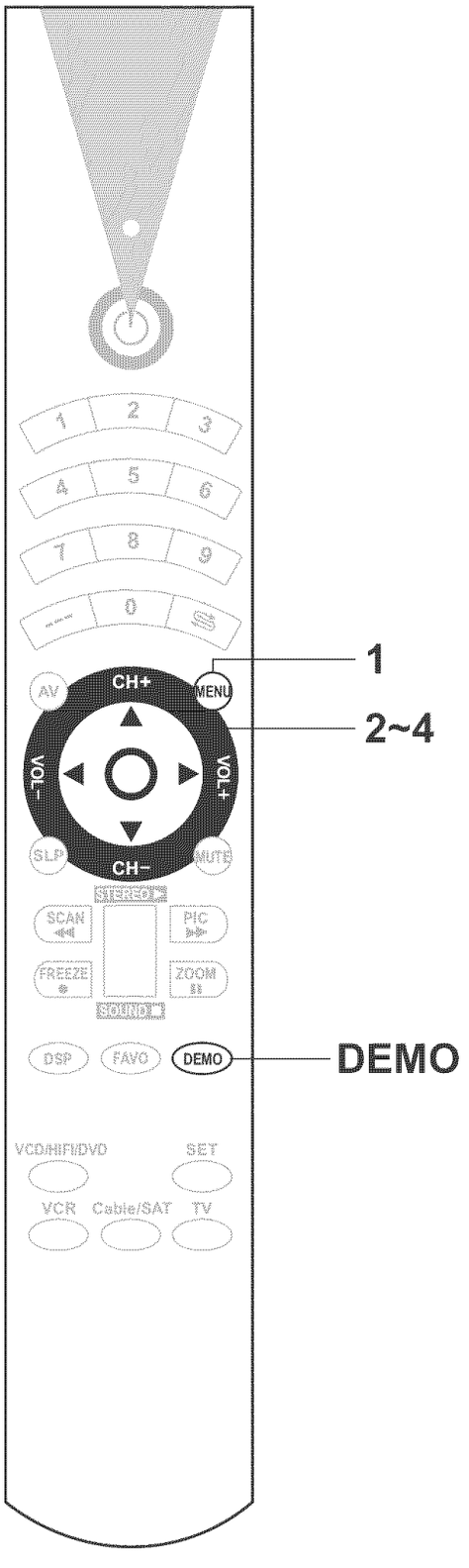
2 **Press VOL+ or VOL- to select icon.**

3 **Press CH- repeatedly to select Degauss item.**

4 **Press VOL+ or VOL- to degauss the set.**



System Setup(continued)



Setting Blue screen

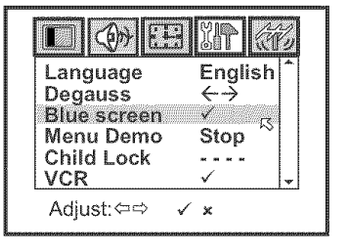
1 Press MENU to display the OSD menu.

2 Press VOL+ or VOL- to select icon.

3 Press CH- repeatedly to select Blue screen item.

4 Press VOL+ or VOL- to select ✓ or × .

If the **Blue Screen** is set to ✓, the TV set will display a blue background when there is no input signal.



Menu Demo

You can quickly start the menu demonstration by using the **DEMO** button on the remote **control**. When you press **DEMO**, the TV set starts the menu demonstration, which shows you how to use the menu.

- or -

1 Press MENU to display the OSD menu.

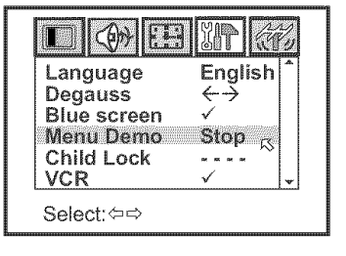
2 Press VOL+ or VOL- to select icon.

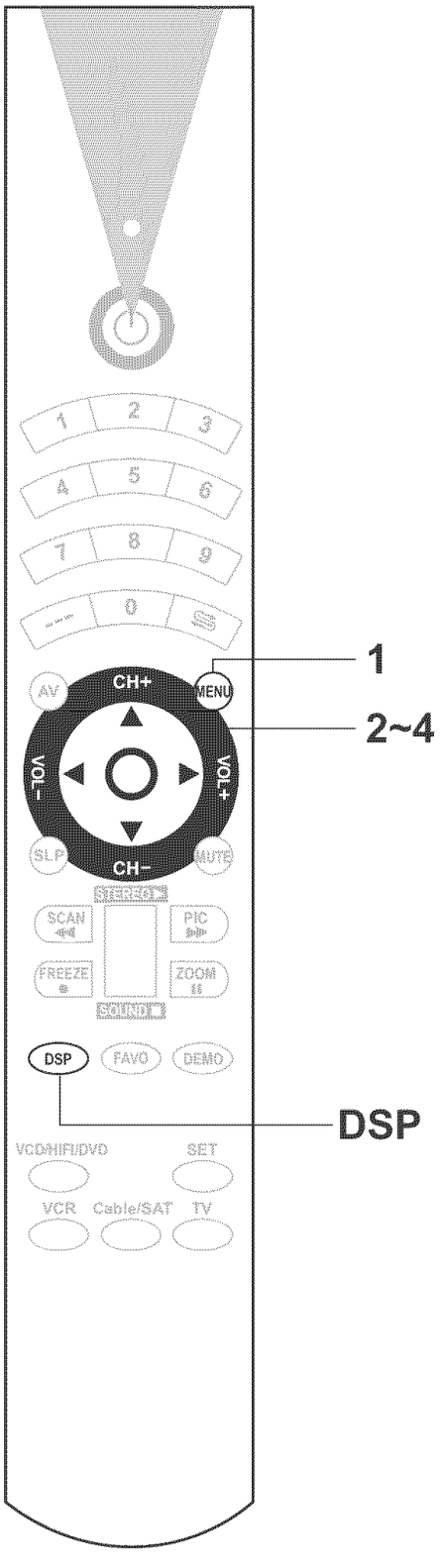
3 Press CH- repeatedly to select Menu Demo item.

4 Press VOL+ or VOL- to start.

Notes:

The menu demonstration stops if any button is pressed.





Setting VCR

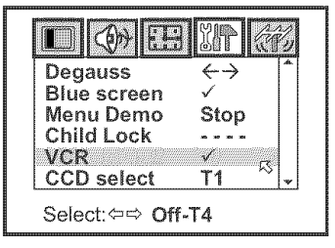
1 Press MENU to display the OSD menu.

2 Press VOL+ or VOL- to select icon.

3 Press CH- repeatedly to select VCR item.

4 Press VOL+ or VOL- to select ✓ or × .

Turn on this item when you are watching VCR program type. It helps to improve the stability of the picture.



Selecting CCD

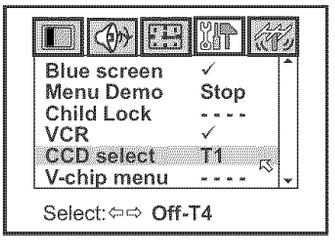
1 Press MENU to display the OSD menu.

2 Press VOL+ or VOL- to select icon.

3 Press CH- repeatedly to select CCD select item.

4 Press VOL+ or VOL- to select.

You can select the caption data channel (**C1/C2/C3/C4**), the text service channel (**T1/T2/T3/T4**) or turn off Closed Captioning (**Off**).

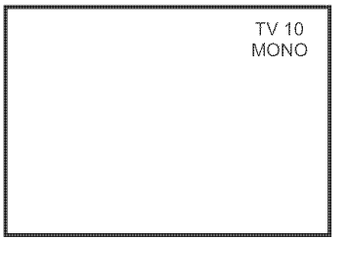


Notes:

1. Some TV programs may not be broadcasted with closed caption signals, and therefore, the TV will not be able to display captions. Also, text information is not offered by all stations.
2. Some TV programs only provide one channel caption, one channel text , or only caption without text.

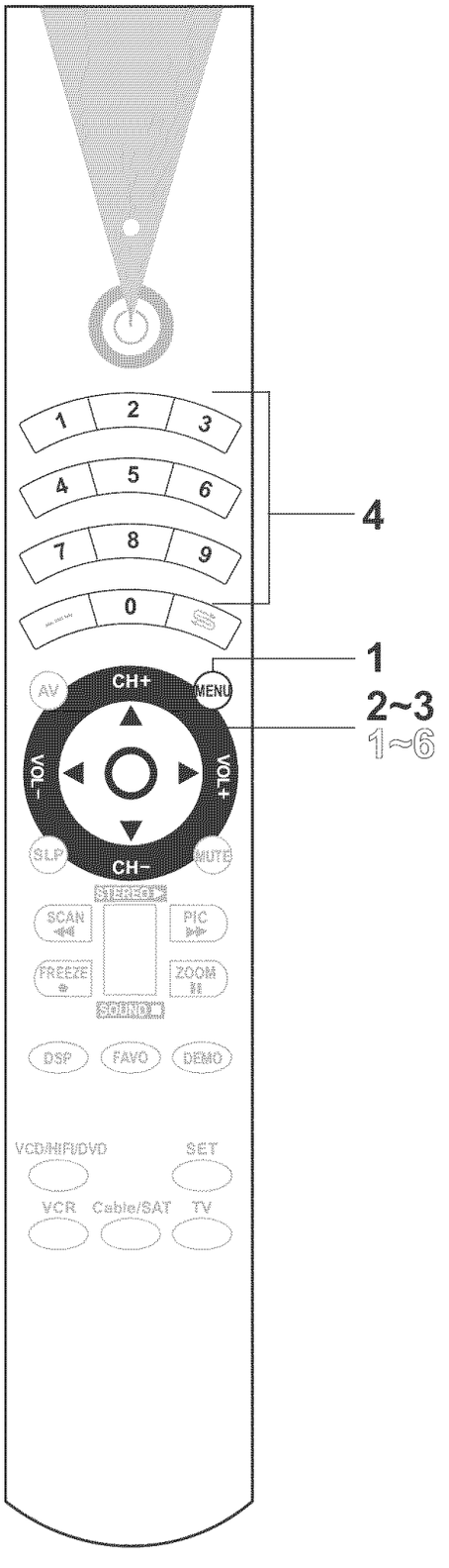
Recalling On-screen display

You can press the **DSP** button on the remote **control** to display the On-screen display.
Press **DSP** once and the channel number and audio mode are displayed for a brief time. To cancel the on-screen display, press **DSP** again or wait for it to automatically disappear.



Parental Control

Setting Child lock



To access Child lock menu

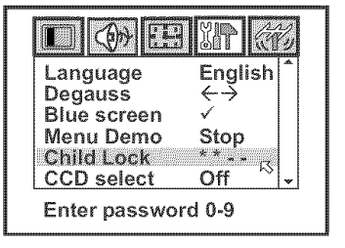
1 **Press MENU to display the OSD menu.**

2 **Press VOL+ or VOL- to select icon.**

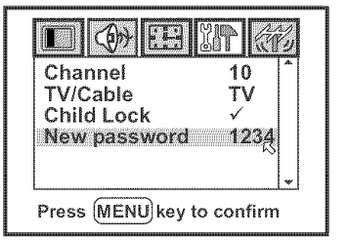
3 **Press CH- repeatedly to select Child lock item.**

4 **Press 0-9 digit keys to enter password.**

The default password to enter **Child lock** menu is **0000** and you can change it in the **Child lock** menu as follows:



- From the **Child lock** menu, Press **CH-** repeatedly to select **New password** item.
- Input a new password by using **0-9** digit keys. Press **MENU** to confirm after you finish inputting the new password.



Important:

*Be sure to write down your password and retain it for future use. If you forget the password, please input **4,3,2,1** in order to access the Child lock menu.*

Setting Child lock

1 **Select Channel item in the Child lock menu.**

2 **Press VOL+ or VOL- to select a channel you want to lock.**

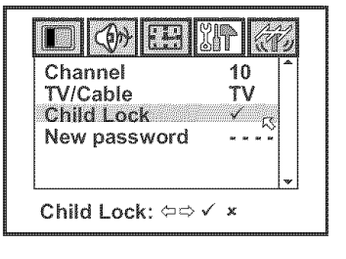
3 **Press CH- to select TV/Cable.**

4 **Press VOL+ or VOL- to select TV or Cable.**

5 **Press CH- to select Child lock.**

6 **Press VOL+ or VOL- to select ✓ or ×.**

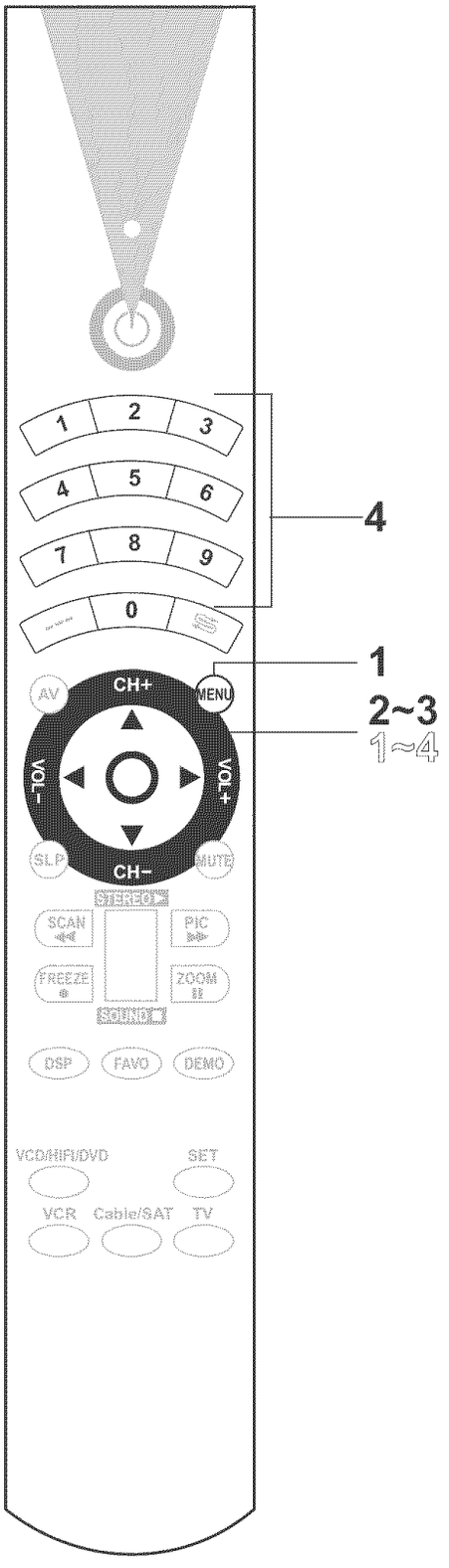
When the **Child lock** item is set to ✓, the channel you select will be locked. When you select a locked channel, the screen displays the following: "**Notice: Child Lock Function Active Now**".



Parental Control(continued)

Setting V-chip

V-Chip enables parents to prevent their children from watching inappropriate material on TV. V-Chip reads the ratings for programming (except for news, sports, unedited movies on premium cable and Emergency System signals), then denies access to programming if the program's rating meets the limitations you select. In this case, the program will be blocked.



To access V-chip menu

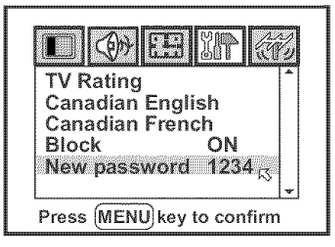
1 **Press MENU to display the OSD menu.**

2 **Press VOL+ or VOL- to select** **icon.**

3 **Press CH- repeatedly to select V-chip menu item.**

4 **Press 0-9 digit keys to enter password.**

The default password to enter **V-chip menu** is **4321** and you can change it in the **V-chip menu** as follows:



- From the **V-chip menu**, Press **CH-** repeatedly to select **New password** item.
- Input a new password by using **0-9** digit keys. Press **MENU** to confirm after you finish inputting the new password.

Important:

1) Be sure to write down your password and retain it for future use. If you forget the password, please input 4,3,2,1 in order to access the V-chip menu.

2) To enable V-chip setting, you should set Block item to ON.

MPAA RATING SET-UP

Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

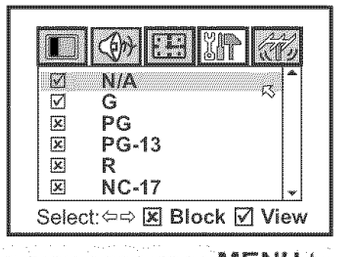
1 **Select MPAA Rating item in the V-chip menu.**

2 **Press VOL+ or VOL- to enter MPAA Rating menu .**

3 **Press CH- to select desired rating.**

4 **Press VOL+ or VOL- to select Block or View.**

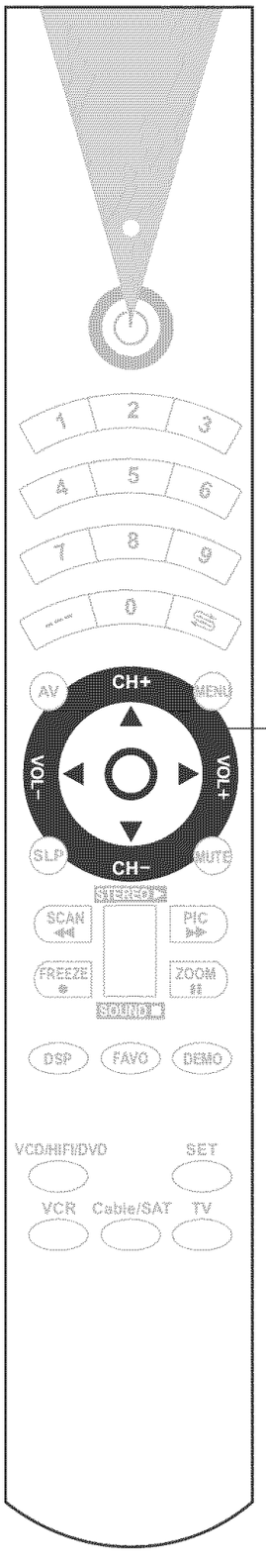
Movie Ratings:
* Unblocked
* G and Above (general audience)
* PG and Above (parental guidance suggested)
* PG-13 and Above (13 years and up)
* R and Above (restricted)
* NC-17 and Above (18 years and up)
* X (adult)



Note: If you finish setting **MPAA Rating**, you can press **MENU** to go back to **V-chip menu**.

Parental Control(continued)

Setting V-chip



Setting TV Rating

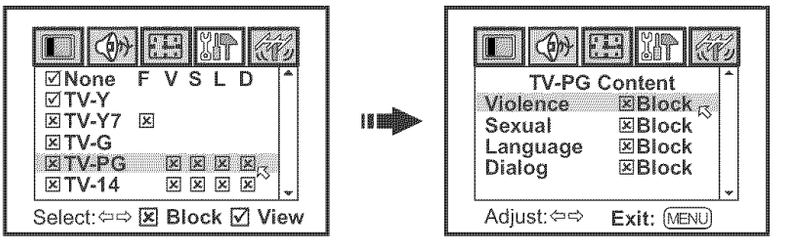
TV Parental Guidelines may have one or more letters added to the basic rating to let parents know when a show contains higher levels of violence, sex, adult language or suggestive dialogue:

1 **From the V-chip menu, press CH- repeatedly to select TV Rating item.**

2 **Press VOL+ or VOL- to enter TV Rating menu.**

3 **Press CH- to select desired rating.**

4 **Press VOL+ or VOL- to select Block or View.**

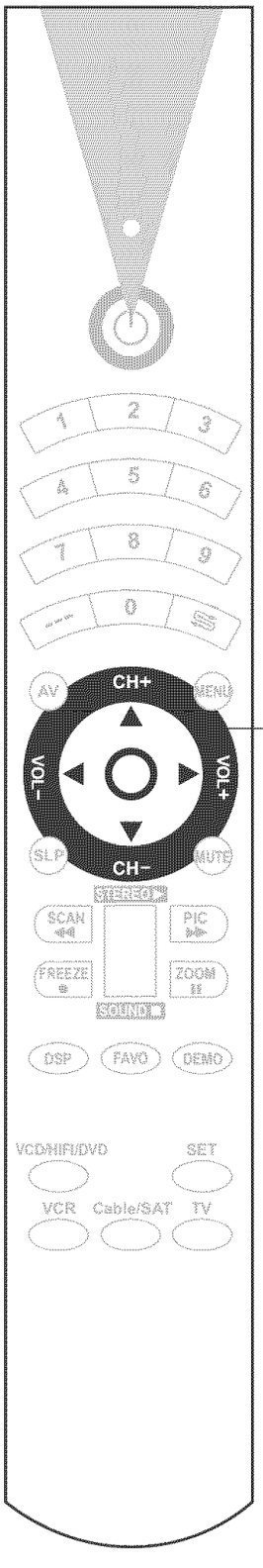


US TV PROGRAMS RATINGS: (Chart 1)	
TV-Y	FOR ALL CHILDREN: Content specifically geared to young viewers ages 2-6.
TV-Y7	FOR AGE 7 AND OLDER: May contain mild physical or comedic violence which may frighten children under 7.
TV-G	GENERAL AUDIENCE: Contains little or no violence, strong language, or sexual dialogue or Situations.
TV-PG	PARENTAL GUIDANCE: May contain infrequent coarse language, limited violence, some suggestive sexual dialogue and Situations.
TV-14	PARENTS CAUTIONED: May contain sophisticated themes, sexual situations, strong language, and more intense violence.
TV-MA	MATURE AUDIENCE: May contain mature themes, profane language, graphic violence, and Sexual situations.

US TV PROGRAMS RATINGS: (Chart 2)	
F	Fantasy Violence
V	Violence
S	Sexual Situations
L	Adult Language
D	Sexually Suggestive Dialogue

Note: If you finish setting **TV Rating**, you can press **MENU** to go back to **V-chip menu**.

Parental Control(continued)



1~4

Setting Canadian English rating

1 From the V-chip menu, press CH- repeatedly to select **Canadian English** item.

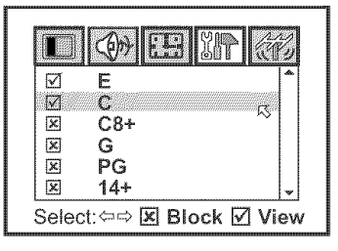
2 Press VOL+ or VOL- to enter Canadian English rating menu.

3 Press CH- to select desired rating.

4 Press VOL+ or VOL- to select Block or View.

Canadian English Language Ratings:

E	:Exempt.
C	:Children.
C8+	:Children 8 years and older.
G	:General programming, suitable for all audiences.
PG	:Parental guidance.
14+	:Viewers 14 years and older.
18+	:Adult programming.



Note: If you finish setting **Canadian English rating**, you can press **MENU** to go back to **V-chip menu**.

Setting Canadian French rating

1 From the V-chip menu, press CH- repeatedly to select **Canadian French** item.

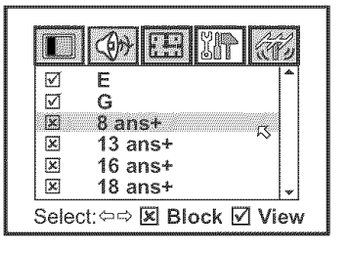
2 Press VOL+ or VOL- to enter Canadian French rating menu.

3 Press CH- to select desired rating.

4 Press VOL+ or VOL- to select Block or View.

Canadian French Language Ratings:

E	:Exempt.
G	:Children.
8 ans+	:Children 8 years and older.
13 ans+	:Children 13 years and older.
16 ans+	:Viewers 16 years and older.
18 ans+	:Adult programming.



Note: If you finish setting **Canadian French rating**, you can press **MENU** to go back to **V-chip menu**.

Other Information

Setting The Universal Remote Control Unit

Your Universal Remote Control is already programmed to operate your TV (just press the TV button). You may also program the Universal Remote Control to operate other devices.

1. HOW TO SET THE UNIT

Locate the correct code for the Brand/Model of the device you wish to control from the attached code list.

1. Press and hold the SET key and then press the key that corresponds to the device you wish to control (TV, VCR, Cable/SAT, or DVD/VCD/HIFI).
2. Enter one of the 3-digit code for your Brand/Model from the list.
3. The LED indicator will blink twice.

If the correct code has been entered, all the functions of the device you wish to control should operate. Some of the codes will control some but not all of the functions of your device. If this occurs, repeat the above 3 steps using another 3 digit code from the code list that corresponds to your Brand/Model.

Notes:

- Note: Do not exceed 5 seconds between each step.

2. HOW TO DETERMINE A 3-DIGIT CODE

1. Hold SET and press 1 simultaneously then release. The number of times LED indicator represents the number of the 1st digit.
2. Hold SET and press 2 simultaneously then release. The number of times LED indicator represents the number of the 2nd digit.
3. Hold SET and press 3 simultaneously then release. The number of times LED indicator represents the number of the 3rd digit.

3. HOW TO USE "QUICK SEARCH"

If you can not locate the appropriate code for your Brand/Model, you can try "Quick Search".

1. Turn the device you wish to control ON.
2. Locate the key, on the Universal Remote Control, for the device you want to operate (TV, VCR, Cable/SAT, or DVD/VCD/HIFI). Press this key for 3 seconds, then release. The "Quick Search" mode is on when the LED indicator blinks.
3. When the device you wish to control shuts off, immediately press the SET key and release.

If the correct code has been found, all the functions of the device you wish to control should operate. If not, repeat the above steps 1 -3.

4. HOW TO SWITCH OVER TO DIFFERENT DEVICE

Your Universal Remote Control is already programmed to operate your TV (just press the TV button). If you have programmed the Universal Remote Control to operate other devices, you must press the key that corresponds to the device you wish to control (TV, VCR, Cable/SAT, or DVD/VCD/HIFI).

5. CODE LIST ON SETUP MODE OR QUICK SEARCH MODE

DEVICE NAME	FOR DEVICE	TOTAL CODES	ACTIVE DEVICE CODE
TV	TV/CTV/TXT	304	001-304
VCR	VCR	384	001-384
CAB/SAT	CABEL/SATELLITE	270	001-270
DVD/VCD/HIFI	DVD/VCD/HIFI	292	001-292

6. MEMO OF BRAND & MODEL

DEVICE	BRAND	MODEL	CODE
TV			
VCR			
CAB/SAT			
DVD/VCD/HIFI			

Other Information(continued)

7. CODE LIST ON SETUP MODE OR QUICK SEARCH MODE

TV codes

ADMIRAL	143 146 147 148
ADVENT	001 002 133 134 142 153 155 157
AIKO	026
AIWA	039 058
AKAI	073 079 084 085 101 107 109 111 123 125
AUDIOVOX	026
BLUEHOUSE	150
CCE	126 127 149 150
DAEWOO	026 030 040 080 081 082 086 128 151 152
DIGISTAR	001 002 133 134 142 153 155 157
DISH	146
ELBE	089 130 103 154
EMERSON	030 137 143 153
FINLUX	034 135 155 156 157
FIRSTLINE	136 160 161 162 163
FISHER	088 164 165 166 167
FUNAI	057 059 060 158 159
GINXIN	113
GOLDSTAR	027 171 172 173 174 178 179 180 181
GRADIENTE	024 029 168 169 170
GRUNDIG	028 077 175 176 177
HITACHI	019 099 050 182 183
HUGHES	148
ITT-NOKIA	102 110 112 184 185
JENSEN	001 002 133 134 142 153 155 157
JVC	011 012 032 033 045 066 095 186 187 188
KASEIKYOU	047 189 190 191 192
LG	027 193 194 195 196
LG-GOLDSTAR	092 104 106 205 206
LOEWE	129 201 202 203 204
LUXOR	125 197 198 199 200
MAGNAVOX	013 207 208 209 210
METZ	132 217 218 219 220 221
MITSUBISHI	014 048 211 212 213
MIVAR	070 131 214 215 216
NEC	029 056 227 228 229 230
NIKKO	026 222 223 224 225 226
NOBLEX	031 231 232 233 234 235
NOKIA	035 036 236 237 238 239
OPTA	129 240 241 242 243 244
PANASONIC	015 020 046 047 061 062 078 096 097 122 245 246
PEONY	038 042 260 261 262 263
PHILCO	026 030 247 248 249 250
PHILIPS	013 072 124 251 252 253 254 255 256 257 258 259
PIONEER	055 151 264 265 266 267 268
PRIMA	001 002 133 134 142 153 155 157
RCA	068 147 269 270 271 272 273
SAMSUNG	021 037 038 071 094 285
SANYO	022 025 052 053 064 090 108 138 139 140 286 287
SEARS	064 288 289 290
SELECO	087 105
SHARP	016 054 063 274 275 276
SINUDYNE	074 075 076 091
SONY	017 049 069 098 277 278 279 280 281 282 283 284
TEKNIKA	026
THOMSON	067 083 093
TOBO	119
TOSHIBA	018 023 051 065 100 298 299 300
WHITE-WESTING HOUSE	001 002 133 134 142 153 155 157
YAMAHA	145
ZENITH	026 030 143 144 301 302

DVD/VCD/HIFI codes

ADVENT	147
AIWA	021
AKAI	145
ALCO	145
BLUEHOUSE	123
DENON	018 061 062 107 108 121
DMTECH	050 096 122 123 124 125
FISHER	143
GRUNDIG	016 050 126 127 128 129 130 131 132 241 242 243 244 245
HARMAN	063 109 138 139 140 141 142 143 246 247 248 249 250
HITACHI	024 025 133 134 135 136 137 142 251 252 253 254
IRT	050 255 256 257 258 259 260
JENSEN	147
JVC	006 017 047 048 051 054 060 064 065 093 094 097 100 106 110 111
JX2033G	122 261 262 263 264 265 266
KARDON	063 109 144 145 146 147 148
KENWOOD	008 029 030 031 032 039 043 066 075 076 078 085 089 112 138 140 141
LENCO	136 137 138 139 140 149 150
MAGNAT	050 235 236 237
MAGNAVOX	067 113 154 155 156 157 158
MATSUI	013 159 160 161 162 163 164
MICROMEGA	009 174 175 176 177 178 179
MITSUBISHI	010 045 068 091 114 165 166 167 168 169 170 171 172 173
NORDMENDE	144 267 268 269 270 271 272
ONKYO	022 067 069 113 115 134 135 187 188
OPTIMUS	004 181 182 183 184 185 186
ORION	042 044 059 088 090 105 120 180
PANASONIC	002 018 019 020 052 061 098 107 133 189 190 191 192 193 194
PHILIPS	023 067 070 113 116 195 196 197
PIONEER	004 034 041 080 087 132 198 199 200 201
PRIMA	147
PROSCAN	071 117 202 203 204 205 206 207 208
RCA	071 117 209 210 211 212 213 214
SAMSUNG	011 014 015 049 095 226 227 228
SANYO	007 033 040 056 057 079 086 102 103 121 131 229 230 231 232 233 234
SHARP	026 130 215 216 217 218 219 220 221
SHERWOOD	072 118 126 127 128 129 238 239
SONY	001 054 055 101 125 222 223 224 225
TECHNICS	004 061 107 124 273 274 275
THOMSON	012 046 092 240
TOSHIBA	003 005 031 042 053 058 059 067 077 088 099 104 105 113
VIDEOWAY	060 276 277 278 279 280 281
WANLIDE	119 282 283 284 285 286 287
YAMAHA	035 036 037 038 061 081 082 083 084 107 288
ZENITH	067 113 289 290

Other Information(continued)

Setting The Universal Remote Control Unit

CABLE/SATELLITE codes

ALPHASTIR	097
AMSTRAD	029 030 031 032 065 066 067 068 092
AMWAY	098
ATLANTA	059 097 098 099 140 141 142 143
ATRANTA	055 094 095 096 136 137 138 139
BT	074 100 101 102 144 145 146 147
CABLE INNOVATIONS	114
CABLEVIEW	011 014 017 103 148 149
CENTURY	100
CHANNEL MASTER	101 150 151 152 153
CHAPANAL	102 133 158 159 160
CHEYENNE	133 154 155 156 157
CI SATELLITE	099 167 168 169
CINAL+	044 081 170 171 172
CITIZEN	011 014 017 104 165 166
CITOH	134 161 162 163 164
CONILER	103 173 174 175 176
CURTIS-MATHES	001 006 055 059 104
D-BOX	085 110 111 112 177 178 179 180
DEHAN	019 107 108 109 181 182 183 184
DIRECTV	105 106 107 108 109 110 111
DISH	095
DISHPLAYER	135 185 186 187 188
DRAHE	112
DX ANTENNA	025 123
ECHOSTAR	026 041 042 043 045 078 079 080 189 190
FORCE	050 089 113 114 191 192 193
FUJITSU	113 194 195 196 197
GALAXIS	035 049 088 123 124
GENERAL INSTRUMENT	025 114 124
GI	002 004 020 056 082 122
GI/JERROLD	056 125 126 127 128
GOLDSTAR	018 115 116 117 118 198 199 200 201
GRUNDIG	033 069 119 120 121 202 203 204
HAMLIN KARDON	008 012 015 061 129 205
HEME CABLE	115 206 207 208 209
HITACHI	105 210 211 212 213
HOUSTON TRACKER	045 214 215 216 217
HUGHES	096 105 106 107 108 109 110 111
INNTERSAT	117 218 219 220 221
IO	116 222 223 224 225
JANEIL	113 226 227 228 229
JERROLD	002 004 020 056 077 082 138 139 140 141 142 143 230 231 232 233
JVC	038 039 074 075 130 131 132 133 134 135 136 137 234
KATHREIN	036 037 072 073
LEGEND	132
LG	018 144 145 146 147 148 235 236 237 238
MAGNAVOX	023 024 130 149 150 151 152 245 246
MASCOM	053 093 119 153 154 155 156 157 239 240
MASPRO	036 158 159 160 161 162 241 242 243 244
MEMGREX	130 247 248 249 250
NOKIA	087 163 164 165 166 167 251 252 253 254
NORSAT	103
OAK	005 013 058 168 169 170 255 256
OPTIMUS	130 257 258 259 260
ORB	120
PACE	048 052 086 261 262
PANASONIC	009 010 040 062 063 076 171 172 173 174 175 176
PANSAT	121
PHILIPS	034 047 070 084 130 177 178 179 180 181 182 183 184
PHONOTREND	035
PICO	122
PIONEER	003 057 185 186 263 264 265
PRIMESTAR	025
PROSCAN	131
QUICK ORAW	123 266 267 268 269
RADIO SHACK	114 124
RAMSEY	122
RCA	009 010 021 062 063 094 131 270
REALISTIC	129
REGAL	008 012 015 061
RFT	035
RURAL CABLE	124
SAGEM	046
SAMSUNG	003 016 027 057 125
SATLANTA	001 006
SELECTOR	090
SIERRA	133
SIGMA	005 013 058
SKY	028 064
SKYMASTER	035 071
SL MARX	016
SONY	022
STAR SIGHT	131
STAR TRAK	120
STRONG	126
STS	116
SUPER GUIDE	127
TAIHAN	019
TCE	131
TEECOM	128
THOMSON	019
TOSHIBA	104 119
TPS	046 083
TRIAX	051 054 091
UNIDEN	114 115 129 130
VIDEO CIPHER II	113
VIDEOWAY	060
ZENITH	007 060 104 112 113

VCR codes

ADMIRAL	024
ADVENT	138 139
ADVENTURE	138139
AIKO	138
AIWA	111 114 136 025 031 051 085 096 138 139 140 141 184
AKAI	003 026 029 030 089 090 098 099 101 108 132 137 139 142 175 177 185 186 187 188
ALLEGRO	188
ALOSTAY	113 157 158 159 160 161
AMERICAN HIGH	173 174
ANITECH	118 131 148 149 150 151
ASHA	041
AUDIO DYNAMICS	074
AUDIOVOX	032
AUSTAR	117 143 144 145 146 147
AUTOVOX	119 152 153 154 155 156
BAIRD	102 162 163 164 165 166
BEAUMAIK	041
BELL&HOWELL	035
BIOKSONIC	056
BROKSONIC	140 141 144
BSR	108 128 133 134 167 168 169 170
CALIX	032
CANDLE	032 037 041 074 160 164 189
CANON	165 172 173 174
CAPEHART	161
CARVER	180
CCE	145 166
CITIZEN	032 037 041 074 160 164 166 189
COLORTYME	074
COLT	145
CRAIG	032 041 145 147
CURTIS-MATHES	041 074 139 146 174 171 172 189
CYBERNEX	041
DAEWOO	037 042 043 069 138 141 160 161 164 166 171 172 173 174 175 176 177 178 179
DAYTRON	161 162
DBX	014 074
DIMENSIA	171
DUAL-TEC	120 180 181 182 183 184
DYNATECH	138 139
ELBE	100 185 186 187 188 189
ELECTROHOME	032 177
ELECTROPHONIC	032
EMERSON	032 037 056 138 139 140 141 156 158 162 173 174 176 177 184 186 191
FERGUSON	104 190 191 192 193 194
FISHER	035 074 095 103 142 147 154 180 195 196 197 198
FUJI	003 173 174
FUNAI	138 139
GARRARD	138
GE	152 171 172 173 174
GOLDSTAR	032 074
GO-VIDEO	039 148
GRADIENTE	138
GRANDA	094 110 199 200 201 202
GRUNDIG	055 070 071 091 092 093
HARMAN	074 138
HARWOOD	145
HEADQUARTER	035
HINARI	097 130 206 207 208 209
HI-Q	147
HITACHI	027 033 034 139 149 150 175 204 205
INNOHT	105 210 211 212 213 214
INSTANT REPLAY	139 173 174
INTEQ	032
IRRADIO	082 215 216 217 218 219
JC PENNEY	014 032 035 041 074 149 150 172 174 175
JCL	173 174
JENSEN	149 175
JVC	014 015 022 044 048 049 052 053 054 074 077 078 079 080 115 116 175 188
KATHREIN	036 037 072 073 220 221
KENWOOD	014 074 175 189
KLH	145 151
KODAK	032 173 174
LG	038 222 223 224 225 226
LG-GOLDSTAR	032 106 107 231 232 233
LLOYD	138 139
LOEWE	020 127 227 228 229 230
LOGIK	145
LXI	032
MAGNAVOX	172 173 174 180

Other Information(continued)

Setting The Universal Remote Control Unit

VCR codes

MAGNIN	041
MARANTZ	014 035 074 121 144 174 180 189 242 243 244 245 246
MARDS	173
MARTA	032
MASUSHITA	173 174
MATSUI	056 057 234 235 236 237
MEI	173 174
MEMGREX	024 032 035 041 138 139 147 173 174 185
MGA	176 177
MGN TECHNOLOGY	041
MIDLAND	152
MINOLTA	149
MITSUBISHI	014 046 047 063 149 176 177 183 191 238 239 240
MOTOROLA	024173 174
MTC	041 138 139
MULTITECH	041 138 139 142 152
NEC	014 035 074 075 144 146 175 189 248 249 250 251
NIKKO	032
NOBLEX	041
NORDMENDE	083 252 253 254 255
OLYMPUS	173 174
OPTIMUS	021 024 032 153
OPTONICA	039 157
ORION	028 056 084 112 135
PANASONIC	021 023 060 061 062 172 173 174
PENTAX	149 150 189
PENTEX RESEARCH	074
PHILCO	172 173 174
PHILIPS	011 012 013 016 017 018 058 059 173 174 180
PILOT	032
PIONEER	014 086 149 163
PORTLAND	160 161 164 189
PROTEC	145
QUARTER	035
QUARTZ	035
QUASAR	172 173 174
RADIO SHACK	021 024 032 035 041 138 139 142 147 153 154 171 172 173 174 177 185
RADIX	032
RANDEX	032
RCA	143 149 150 167 168 169 170 171 172 173 174 181 187
RICOH	002
RRADIO	109
SAMSUNG	039 037 040 041 045 057 149 152 155 185 256 257 258
SANSUI	175 181
SANYO	035 036 041 067 068 134 147 259 260 261
SCOTT	141 156 176 191
SEARS	032 035 142 147 149 150 154 173 174
SHARP	024 064 139 164 262 263 264 265 266
SHINTOM	002 003 145 149 190
SHOGUN	041
SIGNATURE	139
SINGER	145 173 174
SINUDYNE	087 088
SONY	001 002 003 004 005 006 007 008 009 010 178 179 267 268 269 270
STS	173 174
SYLVANIA	138 139 176
SYMPHONIC	139
TANDY	035 139
TASHIKO	032
TATUNG	175
TEAC	138 139 175 181
TECHNICS	021 173
TEKNIKA	032 138 174
THOMSON	019 050 066 072 073 076 123 124 125 126
THORN	104 122
TMK	041 146 158
TOSHIBA	037 050 065 081 154 271 272 273 274
TOTEVSION	032 041
UNITECH	041
VECTOR RESEARCH	014 037 074 189
VICTOR	014
VIDEO CONCEPTS	037 074 177 189
VIDEOSONIC	014 041
WARDS	024 032 037 041 138 139 145 147 149 150 174 177
WHITE WEST	139
XR-1000	138 145 173 174
YAMAHA	014 035 074 175
ZENITH	002 003 014 039 159 188

Troubleshooting

Please check the following if you are having trouble with your TV.

	SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Power	No power	The AC power cord is not connected.	Connect the AC power cord to the AC outlet
TV broadcast reception	Poor or no picture.	TV station experiencing problems.	Try another channel.
		Picture control is not adjusted.	Check picture control adjustments.
		Possible local interference.	Check for source of reception disturbance
		Antenna/Cable connector is not connected.	Check Cable connection or VHF/UHF ant.
	Picture wobbles or drifts.	TV station experiencing problems.	Try another channel.
		Cable TV channel is scrambled.	A Cable box needs to be used (if desired).
		Possible local interference.	Check for source of reception disturbance
	No Cable reception.	Cable connected or not connected.	Check all Cable connections.
		TV/Cable set to TV.	Set TV/Cable to Cable
		Cable TV service interrupted.	Contact your Cable TV company.
	No reception above CH13.	TV/Cable set to TV.	Set TV/Cable to Cable.
	Poor or no sound.	TV station experiencing problems.	Try another channel.
		MUTE button is pressed.	Press MUTE button again.
		Possible local interference.	Check for source of reception disturbance.
		Antenna/Cable connector is not connected.	Check Cable connection or VHF/UHF ant.
		Volume is set to minimum.	Increase volume.
	TV Shuts off.	Sleep Timer is set.	Set Sleep Timer to "Off".
		Off Timer is set.	Clear Off Timer.
	Closed Captioning not working.	TV Signal is weak.	Check Cable or VHF/UHF antenna.
		TV station experiencing problems or program tuned is not closed captioned.	Try another channel.
		Closed Captioning not turned on.	Press the CCD button.
Remote Control	Remote control does not operate.	The remote control is not aimed at the sensor.	Aim the remote control at the Remote sensor.
		Distance is too far or too much light in the room.	Operate within 23 feet or reduce the light in the room.
		There is an obstacle in the path of the beam.	Clear the path of the beam.
		The batteries are weak.	Replace the batteries.
		The batteries are not inserted correctly.	Insert correctly.
V-CHIP	Parental Control not Working properly.	BLOCK is set to "Off".	Set BLOCK to "On".
		News or sports event being broadcast.	Parental Control does not work with News or sporting events.
		Ratings not set.	Set ratings as desired.

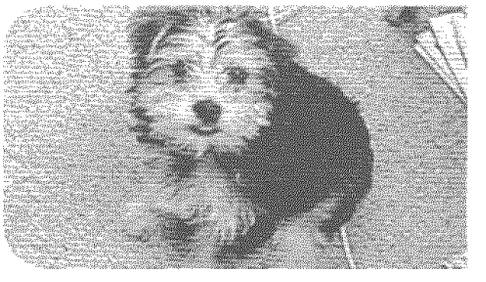
Troubleshooting (continued)

RECEPTION DISTURBANCES

Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results if not using cable or a satellite. The most common types of television interference are shown below. If one of these symptoms appear when the TV is connected to a Cable TV system, the disturbance may be caused by the local cable company broadcast.

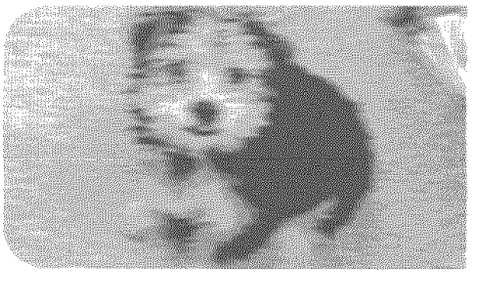
IGNITION:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electric drills and other electric appliances.



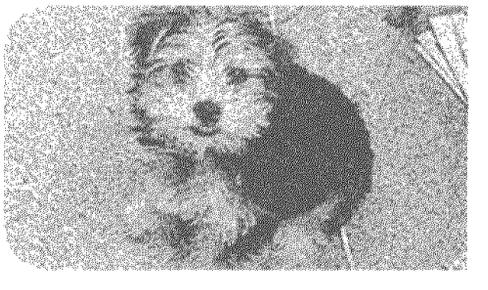
GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or other objects. Changing the direction or position of the antenna may improve the reception.



SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it maybe necessary to install an external antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:

This interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

PICTURE SIZE VARIATION:

A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS setting.

CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect your unit from the AC power source when cleaning. The exterior of the receiver may be cleaned with a dust cloth. Use caution when cleaning and wiping the plastic parts. Mild soap and a soft, damp cloth may be used.

Specifications

	HT2751A	HT3251A
Power Supply:	AC 120V, 60Hz	
Power Consumption:	150W	160W
Dimensions: (inch)	31.5(W) X23.4(H) X20.1(D)	37.8(W) X27.2(H) X22.8(D)
Weight(kg/lb):	47 kg/105 lb	63 kg/140 lb
CRT:	27" FLAT SCREEN	32" FLAT SCREEN
Audio Output:	7W X 2	7W X 2
Receiving channel:	VHF 2-13 UHF 14-69 Cable 2-69, (A-6)-(A-1), A-W, (W+1)-(W+28) Total 181 channels	
Color System:	Television: NTSC-M AV: NTSC3.58/4.43, PAL 4.43, SECAM, PAL-M	
Antenna Impedance:	VHF/UHF 75 ohm	
Accessories:	Remote control X1	

Design and specifications are subject to change without notice.

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